UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM F-3
REGISTRATION STATEMENT
UNDER
THE SECURITIES ACT OF 1933

Affimed N.V.

(Exact Name of Registrant as Specified in Its Charter)

 $\begin{tabular}{ll} Not \ Applicable \\ (Translation of Registrant's name into English) \end{tabular}$

Netherlands

(State or Other Jurisdiction of Incorporation or Organization)

Not Applicable (I.R.S. Employer Identification Number)

Technologiepark, Im Neuenheimer Feld 582 69120 Heidelberg, Germany (+49) 6221-65307-0

(Address, Including Zip Code, and Telephone Number, Including Area Code, of Registrant's Principal Executive Offices)

National Corporate Research, Ltd. 10 East 40th Street New York, New York 10016 (212) 947-7200

(Name, Address, Including Zip Code, and Telephone Number, Including Area Code, of Agent For Service)

Copies to:
Sophia Hudson
Davis Polk & Wardwell LLP
450 Lexington Avenue
New York, NY 10017
(212) 450-4000

	(212) 430 4000
	Approximate date of commencement of proposed sale to the public: From time to time after this Registration Statement becomes effective.
_	If the only securities being registered on this Form are being offered pursuant to dividend or interest reinvestment plans, please check the following box.
93	If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 33, check the following box. ⊠
st	If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and the Securities Act registration statement number of the earlier effective registration statement for the same offering. \Box
eg	If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act istration statement number of the earlier effective registration statement for the same offering. \Box
vit	If this Form is a registration statement pursuant to General Instruction I.C. or a post-effective amendment thereto that shall become effective upon filing h the Commission pursuant to Rule 462(e) under the Securities Act, check the following box. \Box
dd	If this Form is a post-effective amendment to a registration statement filed pursuant to General Instruction I.C. filed to register additional securities or litional classes of securities pursuant to Rule 413(b) under the Securities Act, check the following box.

CALCULATION OF REGISTRATION FEE

		Proposed Maximum	Proposed Maximum	
Title of Each Class of	Amount to be	Aggregate Price per	Aggregate Offering	Amount of
Securities to be Registered	Registered(1)	Unit(2)	Price(3)	Registration Fee(3)
Primary Offering:				
Common Shares, nominal value €0.01 per share				(1)
Debt securities				(1)
Warrants				(1)
Purchase Contracts				(1)
Units				(1)
Subtotal	\$ 150,000,000		\$ 150,000,000	\$ 15,105
Secondary Offering:				
Common Shares, nominal value €0.01 per share	9,660,066		\$ 61,341,419	\$ 6,177.09
Total			\$ 211,341,419	\$ 21,282.09

- (1) There are being registered hereunder such indeterminate number of the securities of each identified class being registered as may be sold by the registrant from time to time at indeterminate prices, with the maximum aggregate public offering price not to exceed \$150,000,000. If any debt securities are issued at an original issue discount, then the offering price of such debt securities shall be in such greater principal amount as shall result in a maximum aggregate offering price not to exceed \$150,000,000, less the aggregate dollar amount of all securities previously issued hereunder. In addition, up to 9,660,066 common shares may be sold by selling shareholders who are identified in the prospectus forming part of this registration statement.
- (2) The proposed maximum aggregate price per unit of each class of securities will be determined from time to time by the registrant in connection with the issuance by the registrant of the securities registered hereunder and is not specified as to each class of securities pursuant to the General Instruction II.C. of Form F-3 under the Securities Act of 1933.
- (3) Estimated solely for the purpose of calculating the registration fee pursuant to Rule 457(o) under the Securities Act of 1933 with respect to the securities to be sold by the registrant and pursuant to Rule 457(c) with respect to the 9,660,066 common shares that may be sold by the selling shareholders. The proposed maximum aggregate offering price of the 9,660,066 common shares to be sold by the selling shareholders is based on the average of the high and low sale prices per share of the common shares on the Nasdaq Global Market on September 29, 2015. In no event will the aggregate offering price of all securities sold by the registrant from time to time pursuant to this registration statement exceed \$150,000,000.

The Registrant hereby amends this Registration Statement on such date or dates as may be necessary to delay its effective date until the Registrant shall file a further amendment which specifically states that this Registration Statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933 or until the Registration Statement shall become effective on such date as the Commission, acting pursuant to said Section 8(a), may determine.

EXPLANATORY NOTE

This registration statement contains two prospectuses:

- · a base prospectus which covers the offering, issuance and sale of up to \$150,000,000 of the registrant's common shares, debt securities, warrants, purchase contracts and units and the offering, issuance and sale of up to 9,660,066 common shares which may be sold by certain selling shareholders; and
- a sales agreement prospectus supplement covering the offering, issuance and sale of up to \$50,000,000 of the registrant's common shares that may be issued and sold under the Sales Agreement (the "Sales Agreement") dated October 1, 2015 between the registrant and Cowen and Company, LLC.

The base prospectus immediately follows this explanatory note. The specific terms of any securities to be offered pursuant to the base prospectus will be specified in a prospectus supplement to the base prospectus. The sales agreement prospectus supplement immediately follows the base prospectus. The common shares that may be offered, issued and sold under the sales agreement prospectus supplement is included in the \$150,000,000 of securities that may be offered, issued and sold by the registrant under the base prospectus. Upon termination of the Sales Agreement, any portion of the \$50,000,000 included in the sales agreement prospectus supplement that is not sold pursuant to the Sales Agreement will be available for sale in other offerings pursuant to the base prospectus.

The information in this prospectus is not complete and may be changed. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This prospectus is not an offer to sell these securities, and we are not soliciting an offer to buy these securities in any state where the offer or sale is not permitted.

Subject to completion, dated October 1, 2015

PROSPECTUS

\$150,000,000

Common Shares, Debt Securities, Warrants, Purchase Contracts and Units offered by the Company and

9,660,066 Common Shares offered by Selling Shareholders



(incorporated in the Netherlands)

We may offer, from time to time, in one or more offerings, common shares, senior debt securities, subordinated debt securities, warrants, purchase contracts or units, which we collectively refer to as the "securities," and the selling shareholders may offer up to 9,660,066 common shares. The aggregate initial offering price of the securities that we may offer and sell under this prospectus will not exceed \$150,000,000. We may offer and sell any combination of the securities described in this prospectus in different series, at times, in amounts, at prices and on terms to be determined at or prior to the time of each offering. This prospectus describes the general terms of these securities and the general manner in which these securities will be offered. We will provide the specific terms of these securities in supplements to this prospectus. The prospectus supplements will also describe the specific manner in which these securities will be offered and may also supplement, update or amend information contained in this prospectus. You should read this prospectus and any applicable prospectus supplement before you invest.

The securities covered by this prospectus may be offered through one or more underwriters, dealers and agents, or directly to purchasers. The names of any underwriters, dealers or agents, if any, will be included in a supplement to this prospectus. For general information about the distribution of securities offered, please see "Plan of Distribution" beginning on page 24.

Our common shares are listed on the Nasdaq Global Market under the symbol "AFMD." On September 29, 2015, the last sale price of our common shares as reported by the Nasdaq Global Market was 6.04 per common share. As of September 29, 2015, the aggregate market value of our outstanding common shares held by non-affiliates was approximately \$123.1 million based on approximately 29,934,168 outstanding common shares, of which approximately 20,380,352 common shares were held by non-affiliates. We have not offered any securities pursuant to General Instruction I.B.5 of Form F-3 during the prior 12 calendar month period that ends on, and includes, the date of this prospectus.

Investing in our securities involves risks. See "Risk Factors" beginning on page 3 of this prospectus.

Neither the U.S. Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

The date of this prospectus is , 2015.

You should rely only on the information contained in or incorporated by reference in this prospectus or any related prospectus supplement we provide to you. Neither we nor the selling shareholders have authorized anyone to provide you with different or additional information. Neither we nor the selling shareholders are making an offer of securities in any state where the offer is not permitted. You should not assume that the information contained in or incorporated by reference in this prospectus is accurate as of any date other than the date on the front of this prospectus. Unless otherwise noted or the context otherwise requires, references in this prospectus to "Affimed" "the Company," "our company," "we," "us" or "our" refer to Affimed N.V. (Affimed Therapeutics AG prior to our corporate reorganization on September 17, 2014) and its subsidiaries.

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ABOUT THIS PROSPECTUS

This prospectus is part of a registration statement that we filed with the Securities and Exchange Commission, or the SEC, utilizing a "shelf" registration process. Under this shelf process, we may sell any combination of the securities described in this prospectus in one or more offerings, and the selling shareholders may sell up to 9,660,066 of their common shares in one or more offerings. This prospectus provides you with a general description of the securities we may offer. Each time we, or the selling shareholders, as applicable, sell securities, we will provide a prospectus supplement that will contain specific information about the terms of that offering. The prospectus supplement may also add, update or change information contained in this prospectus. You should read both this prospectus and any prospectus supplement together with additional information described under the headings "Where You Can Find More Information" and "Incorporation of Certain Information by Reference."

We have filed or incorporated by reference exhibits to the registration statement of which this prospectus forms a part. You should read the exhibits carefully for provisions that may be important to you.

Neither the delivery of this prospectus nor any sale made under it implies that there has been no change in our affairs or that the information in this prospectus is correct as of any date after the date of this prospectus. You should not assume that the information in this prospectus, including any information incorporated in this prospectus by reference, the accompanying prospectus supplement or any free writing prospectus prepared by us, is accurate as of any date other than the date on the front of those documents. Our business, financial condition, results of operations and prospects may have changed since that date.

You should not assume that the information contained in this prospectus is accurate as of any other date.

WHERE YOU CAN FIND MORE INFORMATION

We file annual reports on Form 20-F, reports on Form 6-K, and other information with the SEC under the Securities Exchange Act of 1934, as amended, or the Exchange Act. You may read and copy this information at the following location of the SEC: Public Reference Room, 100 F Street, N.E., Washington, D.C. 20549.

You may obtain information on the operation of the SEC's Public Reference Room by calling the SEC at 1-800-SEC-0330. The SEC also maintains an Internet site that contains reports and other information about issuers like us who file electronically with the SEC. The address of the site is http://www.sec.gov.

As a foreign private issuer, we are exempt under the Exchange Act from, among other things, the rules prescribing the furnishing and content of proxy statements, and our managing directors and supervisory directors and principal shareholders are exempt from the reporting and short-swing profit recovery provisions contained in Section 16 of the Exchange Act. In addition, we are not required under the Exchange Act to file periodic reports and financial statements with the SEC as frequently or as promptly as U.S. companies whose securities are registered under the Exchange Act.

SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus and the financial statements and other documents incorporated by reference in this prospectus contain forward-looking statements, including statements concerning our industry, our operations, our anticipated financial performance and financial condition, and our business plans and growth strategy and product development efforts. These statements constitute forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, or the Securities Act, and Section 21E of the Exchange Act. Many of the forward-looking statements contained in this prospectus can be identified by the use of forward-looking words such as "anticipate," "believe," "could," "expect," "should," "plan," "intend," "estimate" and "potential," among others. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of their dates. These forward-looking statements are based on estimates and assumptions by our management that, although we believe to be reasonable, are inherently uncertain and subject to a number of risks and uncertainties.

The following represent some, but not necessarily all, of the factors that could cause actual results to differ from historical results or those anticipated or predicted by our forward-looking statements:

- · our operation as a development stage company with limited operating history and a history of operating losses; as of June 30, 2015, our accumulated deficit was €106.7 million;
- the chance our clinical trials may not be successful and clinical results may not reflect results seen in previously conducted preclinical studies and clinical trials;
- · our reliance on contract manufacturers and contract research organizations over which we have limited control;
- · our lack of adequate funding to complete development of our product candidates and the risk we may be unable to access additional capital on reasonable terms or at all to complete development and begin commercialization of our product candidates;
- · our dependence on the success of AFM13 and AFM11, which are still in clinical development and may eventually prove to be unsuccessful;
- · uncertainty surrounding whether any of our product candidates will receive regulatory approval, which is necessary before they can be commercialized;
- the chance that we may become exposed to costly and damaging liability claims resulting from the testing of our product candidates in the clinic or in the commercial stage;
- if our product candidates obtain regulatory approval, our being subject to expensive ongoing obligations and continued regulatory overview;
- · enacted and future legislation may increase the difficulty and cost for us to obtain marketing approval and commercialization;
- the chance that our products may not gain market acceptance, in which case we may not be able to generate product revenues;
- · our reliance on our current strategic relationships with the DKFZ, Xoma, LLS, Amphivena and Amphivena's other investors and partners, including MPM Capital, Aeris Capital and Janssen, and the potential failure to enter into new strategic relationships;
- · our reliance on third parties to conduct our nonclinical and clinical trials and on third-party single-source suppliers to supply or produce our product candidates;
- · our future growth and ability to compete, which depends on our retaining key personnel and recruiting additional qualified personnel; and
- · other risk factors discussed under "Risk Factors."

Our actual results or performance could differ materially from those expressed in, or implied by, any forward-looking statements relating to those matters. Accordingly, no assurances can be given that any of the events anticipated by the forward-looking statements will transpire or occur, or if any of them do so, what impact they will have on our results of operations, cash flows or financial condition. Except as required by law, we are under no obligation, and expressly disclaim any obligation, to update, alter or otherwise revise any forward-looking statement, whether written or oral, that may be made from time to time, whether as a result of new information, future events or otherwise.

AFFIMED N.V.

We are a clinical-stage biopharmaceutical company focused on discovering and developing highly targeted cancer immunotherapies. Our product candidates are being developed in the field of immune-oncology, which

represents an innovative approach to cancer treatment that seeks to harness the body's own immune defense to fight tumor cells. The most potent cells of the human defense arsenal are types of white blood cells called Natural Killer cells, or NK-cells, and T-cells. Our proprietary, next-generation bispecific antibodies, which we call TandAbs because of their tandem antibody structure, are designed to direct and establish a bridge between either NK-cells or T-cells and cancer cells. Our TandAbs have the ability to bring NK-cells or t-cells into proximity and trigger a signal cascade that leads to the destruction of cancer cells. Due to their novel tetravalent architecture (which provides for four binding domains), our TandAbs bind to their targets with high affinity and have half-lives that allow intravenous administration. We believe, based on their mechanism of action and the preclinical and clinical data we have generated to date, that our product candidates, alone or in combination, may ultimately improve response rates, clinical outcomes and survival in cancer patients and could eventually become a cornerstone of modern targeted oncology care.

On September 17, 2014, in connection with our corporate reorganization prior to the closing of our initial public offering, we changed our name to Affimed N.V. The common shares covered by this prospectus refer to the common shares of Affimed N.V. The offices of Affimed N.V. are located at Technologiepark, Im Neuenheimer Feld 582, 69120 Heidelberg, Germany. Our telephone number is (+49) 6221-65307-0. Investors should contact us for any inquiries at the address and telephone number of our principal executive office. Our principal website is www.affimed.com. The information contained on our website is not a part of this prospectus.

RISK FACTORS

Before making a decision to invest in our securities, you should carefully consider the risks described under "Risk Factors" in the applicable prospectus supplement and in our then most recent Annual Report on Form 20-F, and in any updates to those risk factors in our reports on Form 6-K incorporated herein, together with all of the other information appearing or incorporated by reference in this prospectus and any applicable prospectus supplement, in light of your particular investment objectives and financial circumstances.

RATIO OF EARNINGS TO FIXED CHARGES

The following table sets forth our ratio of earnings to fixed charges for each of the periods indicated. You should read this table in conjunction with the consolidated financial statements and notes incorporated by reference in this prospectus.

Six Months	Fiscal Year Ended December 31,		
Ended June 30, 2015	2014	2013	2012
(Unaudited)			
*	*	*	*

Ratio of earnings to fixed charges

For purposes of calculating the ratios in the table above, earnings consist of net profit/(loss) before income taxes plus fixed charges. Fixed charges include interest expense on indebtedness, interest expense on preferred shares and an estimate of the interest expense (6% for all periods) within rental expense.

Our ratios of earnings to combined fixed charges and preferred share dividends for the periods indicated above are the same as our ratios of earnings to fixed charges set forth above.

USE OF PROCEEDS

Unless otherwise indicated in a prospectus supplement, the net proceeds from our sale of the securities will be used for general corporate purposes and other business opportunities. We will not receive any proceeds from the sale of any common shares offered by the selling shareholders.

^{*} Our earnings were insufficient to cover fixed charges by €6.7 million for the six months ended June 30, 2015 and €0.4 million, €26.1 million and €14.3 million for the years ended December 31, 2014, 2013 and 2012, respectively.

SELLING SHAREHOLDERS

This prospectus also relates to the possible resale from time to time by SGR Sagittarius Holding AG, AGUTH Holding GmbH, OrbiMed Private Investments III, LP, OrbiMed Associates III, LP and Perceptive Credit Opportunities Fund, LP, whom we refer to in this prospectus as the "selling shareholders," of 9,660,066 of their common shares. 9,553,816 of these shares were issued and outstanding prior to the original date of filing of the registration statement of which this prospectus forms a part and were issued to certain selling shareholders upon the conversion of all prior existing share classes into common shares upon, or were newly issued in, our initial public offering in September 2014. The different types of shares held by the selling shareholders prior to the aforementioned conversion were acquired from us in private placement transactions prior to our initial public offering. 106,250 common shares are being registered in order to permit Perceptive Credit Opportunities Fund, LP to offer the shares issuable upon exercise of certain warrants issued to Perceptive Credit Opportunities Fund, LP in connection with the entry into a term loan agreement in July 2014 for resale from time to time.

If any selling shareholder offers common shares in any future offering, an applicable prospectus supplement will set forth the name of each such selling shareholder, the nature of any position, office or other material relationship which the selling shareholder has had with the Company or any of its predecessors or affiliates during the three years prior to the date of the applicable prospectus supplement, the number of our common shares owned by the selling shareholder before and after the offering and the number of our common shares to be offered by the selling shareholder.

We will pay the fees and the expenses incurred in effecting the registration of the common shares covered by this prospectus, including, without limitation, all registration and filing fees, fees and expenses of our counsel and accountants and fees and expenses of selling shareholders' counsel. The selling shareholders will pay any underwriting or broker discounts and any commissions incurred by the selling shareholders in selling their common shares.

The selling shareholders may not sell any common shares pursuant to this prospectus until we have identified such selling shareholder and the common shares which may be offered for resale by such selling shareholder in a subsequent prospectus supplement. However, the selling shareholders may sell or transfer all or a portion of their common shares pursuant to any available exemption from the registration requirements of the Securities Act of 1933.

DESCRIPTION OF SHARE CAPITAL AND ARTICLES OF ASSOCIATION

General

We were incorporated pursuant to the laws of the Netherlands as Affimed Therapeutics B.V. in May 2014 to become a holding company for Affimed Therapeutics AG prior to consummation of our initial public offering. Affimed Therapeutics AG was founded in 2000 as a spin-off from Deutsches Krebsforschungszentrum, the German Cancer Research Centre, or the DKFZ, by Professor Melvyn Little in Heidelberg, Germany. Pursuant to the terms of a corporate reorganization that was completed prior to the consummation of our initial public offering, all of the interests in Affimed Therapeutics AG were exchanged for newly issued common shares of Affimed Therapeutics B.V. and, as a result, Affimed Therapeutics AG became a wholly owned subsidiary of Affimed Therapeutics B.V. Prior to consummation of our initial public offering, we converted into a public company with limited liability (naamloze vennootschap) pursuant to a Deed of Amendment and Conversion, and our legal name is now Affimed N.V.

We are registered with the Trade Register of the Chamber of Commerce (*handelsregister van de Kamer van Koophandel*) under number 60673389 0000. Our corporate seat is in Amsterdam, the Netherlands, and our registered office is in Heidelberg, Germany.

Our authorized share capital is epsilon1,100,000, divided into 55,000,000 common shares, each with a nominal value of epsilon0.01 and 55,000,000 cumulative preferred shares, each with a nominal value of epsilon0.1, and our issued share capital is epsilon299,342 as of September 30, 2015.

We have adopted an anti-takeover measure pursuant to which our management board may, subject to supervisory board approval but without shareholder approval, issue (or grant the right to acquire) cumulative

preferred shares. We may issue an amount of cumulative preferred shares up to 100% of our issued capital immediately prior to the issuance of such preferred shares. In such event, the cumulative preferred shares will be issued to a separate, newly established foundation, which will be structured to operate independently of us. If the management board determines to issue the cumulative preferred shares to such a foundation, the foundation's articles of association will provide that it will act to serve the best interests of us, our associated business and all parties connected to us, by opposing any influences that conflict with these interests and threaten to undermine our continuity, independence and identity.

The cumulative preferred shares will be issued to the foundation for their nominal value, of which only 25% will be due upon issuance. In accordance with Dutch law, the voting rights of our shares are based on their nominal value and as we expect our common shares to trade substantially in excess of nominal value, cumulative preferred shares issued at nominal value can obtain significant voting power for a substantially reduced price and thus be used as a defensive measure. These cumulative preferred shares will have both a liquidation and dividend preference over our common shares and will accrue cash dividends at a fixed rate.

The management board may issue these cumulative preferred shares to protect us from influences that do not serve our best interests and threaten to undermine our continuity, independence and identity. These influences may include a third-party acquiring a significant percentage of our common shares, the announcement of a public offer for our common shares, other concentration of control over our common shares or any other form of pressure on us to alter our strategic policies.

Under Dutch law, our authorized share capital is the maximum capital that we may issue without amending our Articles of Association. An amendment of our Articles of Association would require a resolution of the general meeting of shareholders upon proposal by the management board with the prior approval of the supervisory board.

Initial settlement of any common shares to be issued pursuant to this prospectus will take place through The Depository Trust Company, or DTC, in accordance with its customary settlement procedures for equity securities. Each person owning common shares held through DTC must rely on the procedures thereof and on institutions that have accounts therewith to exercise any rights of a holder of the common shares.

Stock Exchange Listing

Our common shares are listed on the Nasdaq Global Market under the symbol "AFMD."

Articles of Association and Dutch Law

We amended our Articles of Association in connection with our initial public offering and converted our company from a Dutch private company with limited liability (*besloten vennootschap met beperkte aansprakelijkheid*) into a Dutch public company with limited liability (*naamloze vennootschap*) as part of our corporate reorganization.

Set forth below is a summary of relevant information concerning our share capital and material provisions of our Articles of Association and applicable Dutch law. This summary does not constitute legal advice regarding those matters and should not be regarded as such.

Company's Shareholders' Register

Subject to Dutch law and the Articles of Association, we must keep our shareholders' register accurate and up-to-date. The management board keeps our shareholders' register and records names and addresses of all holders of shares, showing the date on which the shares were acquired, the date of the acknowledgement by or notification of us as well as the amount paid on each share. The register also includes the names and addresses of those with a right of use and enjoyment (*vruchtgebruik*) in shares belonging to another or a pledge in respect of such shares. There is no restriction on the ownership of our shares. Any common shares to be issued pursuant to this prospectus will be held through DTC, therefore DTC or its nominee will be recorded in the shareholders' register as the holder of the common shares.

Corporate Objectives

Pursuant to the Articles of Association, our corporate objectives are:

- the research, development, manufacture and commercialization of products for the detection, prevention and treatment of human and non-human diseases and conditions and to provide services therewith;
- · to incorporate, participate in, conduct the management of and take any other financial interest in other companies and enterprises;
- · to render administrative, technical, financial, economic or managerial services to other companies, persons or enterprises;
- to acquire, dispose of manage and exploit real and personal property, including patents, marks, licenses, permits and other intellectual property rights;
- · to borrow and/or lend moneys, act as surety or guarantor in any other manner, and bind itself jointly and severally or otherwise in addition to or on behalf of others; and
- the foregoing, whether or not in collaboration with third parties, and inclusive of the performance and promotion of all activities which directly and indirectly relate to those objects, all this in the broadest sense.

Limitation on Liability and Indemnification Matters

Under Dutch law, managing directors and supervisory directors and certain other officers may be held liable for damages in the event of improper or negligent performance of their duties. They may be held jointly and severally liable for damages to the Company and to third parties for infringement of the Articles of Association or of certain provisions of the Dutch Civil Code. In certain circumstances, they may also incur additional specific civil and criminal liabilities. Our Articles of Association provide for indemnification of our current and former managing directors and supervisory directors. Managing directors and supervisory directors and certain other officers are also insured under an insurance policy taken out by us against damages resulting from their conduct when acting in the capacities as such directors or officers.

Shareholders' Meetings and Consents

General Meeting

General meetings of shareholders may be held in Amsterdam, Rotterdam, The Hague, Arnhem, Utrecht or the municipality of Haarlemmermeer (Schiphol Airport), the Netherlands. The annual general meeting of shareholders must be held within six months of the end of each financial year. Additional extraordinary general meetings of shareholders may also be held, whenever considered appropriate by the management board or the supervisory board. Pursuant to Dutch law, one or more shareholders, who jointly represent at least one-tenth of the issued capital may, on their application, be authorized by a Dutch district court to convene a general meeting of shareholders. The district court shall disallow the application if it does not appear that the applicants have previously requested the management board and the supervisory board to convene a general meeting of shareholders and neither the management nor the supervisory board has taken the necessary steps so that the general meeting of shareholders could be held within six weeks after the request.

General meetings of shareholders can be convened by a notice, which shall include an agenda stating the items to be discussed, including for the annual general meeting of shareholders, among other things, the adoption of the annual accounts, appropriation of our profits and proposals relating to the composition of the management board or supervisory board, including the filling of any vacancies in the management board or supervisory board. In addition, the agenda shall include such items as have been included therein by the management board or supervisory board. The agenda shall also include such items requested by one or more shareholders, and others entitled to attend general meetings of shareholders, representing at least 3% of the issued share capital. Requests must be made in writing and received by the management board at least 60 days before the day of the convocation of the meeting. No resolutions shall be adopted on items other than those which have been included in the agenda. In accordance with the Dutch Corporate Governance Code, or DCGC, a shareholder shall exercise the right of putting an item on the agenda only after consulting the management board in that respect. If one or more shareholders intend to request that an item be put on the agenda that may result in a change in the company's strategy, the management board may invoke a response time of a maximum of 180 days until the day of the general meeting of shareholders.

The general meeting is presided over by the chairman of the supervisory board. However, the chairman may charge another person to preside over the general meeting in his place even if he himself is present at the meeting. If the chairman of the supervisory board is absent and he has not charged another person to preside over the meeting in his place, the supervisory directors present at the meeting shall appoint one of them to be chairman. If no supervisory directors are present at the general meeting, the general meeting is to be presided over by one of the managing directors designated for that purpose by the management board. Managing directors and supervisory directors may attend a general meeting of shareholders. In these meetings, they have an advisory vote. The chairman of the meeting may decide at its discretion to admit other persons to the meeting.

All shareholders and others entitled to attend general meetings of shareholders are authorized to attend the general meeting of shareholders, to address the meeting and, in so far as they have such right, to vote.

Quorum and Voting Requirements

Each common share confers the right on the holder to cast one vote at the general meeting of shareholders. Shareholders may vote by proxy. No votes may be cast at a general meeting of shareholders on shares held by us or our subsidiaries or on shares for which we or our subsidiaries hold depositary receipts. Nonetheless, the holders of a right of use and enjoyment (*vruchtgebruik*) and the holders of a right of pledge in respect of shares held by us or our subsidiaries in our share capital are not excluded from the right to vote on such shares, if the right of use and enjoyment (*vruchtgebruik*) or the right of pledge was granted prior to the time such shares were acquired by us or any of our subsidiaries. Neither we nor any of our subsidiaries may cast votes in respect of a share on which we or such subsidiary holds a right of use and enjoyment (*vruchtgebruik*) or a right of pledge. Shares which are not entitled to voting rights pursuant to the preceding sentences will not be taken into account for the purpose of determining the number of shareholders that vote and that are present or represented, or the amount of the share capital that is provided or that is represented at a general meeting of shareholders.

Decisions of the general meeting of shareholders are taken by an absolute majority of votes cast, except where Dutch law or the Articles of Association provide for a qualified majority or unanimity.

Directors

Election of Directors

Under our Articles of Association, our managing directors and supervisory directors are appointed by the general meeting of shareholders upon a binding nomination by our supervisory board. The general meeting of shareholders may overrule the binding nomination by a resolution adopted with a two-thirds majority of the votes cast representing at least half of the issued share capital. If the general meeting of shareholders overrules the binding nomination, the supervisory board shall make a new binding nomination.

Duties and Liabilities of Directors

Under Dutch law, the management board is responsible for our management, strategy, policy and operations. The supervisory board is responsible for supervising the conduct of and providing advice to the management board and for supervising our business generally. Furthermore, each member of the management board and the supervisory board has a duty to act in the corporate interest of the company. Under Dutch law, the corporate interest extends to the interests of all corporate stakeholders, such as shareholders, creditors, employees, customers and suppliers. The duty to act in the corporate interest of the company also applies in the event of a proposed sale or break-up of the company, whereby the circumstances generally dictate how such duty is to be applied. Any resolution of the management board regarding a significant change in our identity or character requires shareholder approval.

Dividends and Other Distributions

Amount Available for Distribution

We may only make distributions to our shareholders if our shareholders' equity exceeds the sum of the paid-in and called-up share capital plus the reserves as required to be maintained by Dutch law or by the Articles of Association. Under the Articles of Association, if any of the cumulative preferred shares are outstanding, a dividend is first paid out of the profit, if available for distribution, on the cumulative preferred shares. Any amount remaining out of the profit is carried to reserve as the management board determines, subject to the approval of the supervisory

board. After reservation by the management board of any profit, the remaining profit will be at the disposal of the general meeting of shareholders.

We only make a distribution of dividends to our shareholders after the adoption of our annual accounts demonstrating that such distribution is legally permitted. The management board is permitted, subject to certain requirements and subject to approval of the supervisory board, to declare interim dividends without the approval of the general meeting of shareholders.

Dividends and other distributions shall be made payable not later than the date determined by the management board. Claims to dividends and other distributions not made within five years from the date that such dividends or distributions became payable, will lapse and any such amounts will be considered to have been forfeited to us (*verjaring*).

We do not anticipate paying any cash dividends for the foreseeable future.

Exchange Controls

Under existing laws of the Netherlands, there are no exchange controls applicable to the transfer to persons outside of the Netherlands of dividends or other distributions with respect to, or of the proceeds from the sale of, shares of a Dutch company.

Squeeze out Procedures

Pursuant to Section 92a, Book 2, Dutch Civil Code, a shareholder who for his own account holds at least 95% of our issued share capital may initiate proceedings against the other shareholders jointly for the transfer of their shares to such shareholder. The proceedings are held before the Enterprise Chamber of the Amsterdam Court of Appeal, or the Enterprise Chamber, and can be instituted by means of a writ of summons served upon each of the other shareholders in accordance with the provisions of the Dutch Code of Civil Procedure (*Wetboek van Burgerlijke Rechtsvordering*). The Enterprise Chamber may grant the claim for squeeze out in relation to the other shareholders and will determine the price to be paid for the shares, if necessary after appointment of one or three experts who will offer an opinion to the Enterprise Chamber on the value to be paid for the shares of the other shareholders. Once the order to transfer becomes final before the Enterprise Chamber, the person acquiring the shares shall give written notice of the date and place of payment and the price to the holders of the shares to be acquired whose addresses are known to him. Unless the addresses of all of them are known to the acquiring person, such person is required to publish the same in a daily newspaper with a national circulation.

Obligation to Disclose Holdings and Transactions

Pursuant to the Dutch Financial Markets Supervision Act (*Wet op het financieel toezicht*, or the FMSA), any member of our management board and our supervisory board and any other person who has managerial or co-managerial responsibilities in respect of us or who has the authority to make decisions affecting our future developments and business prospects and who may have regular access to inside information relating, directly or indirectly, to us, must give written notice to the Netherlands Authority for the Financial Markets (*Stichting Autoriteit Financiële Markten*, or AFM) by means of a standard form of any transactions conducted for his own account relating to our shares or in financial instruments the value of which is also based on the value of our shares.

Furthermore, in accordance with the FMSA and the regulations promulgated thereunder, certain persons who are closely associated with our managing directors and supervisory directors or any of the other persons as described above, are required to notify the AFM of any transactions conducted for their own account relating to our shares or in financial instruments the value of which is also based on the value of our shares. The FMSA and the regulations promulgated thereunder cover the following categories of persons: (1) the spouse or any partner considered by national law as equivalent to the spouse, (2) dependent children, (3) other relatives who have shared the same household for at least one year at the relevant transaction date, and (4) any legal person, trust or partnership whose managerial responsibilities, among other things, are discharged by a person referred to under (1), (2) or (3) above or by the relevant member of our supervisory board or other person with any authority in respect of us as described above.

The AFM must be notified no later than the fifth business day following the relevant transaction date. Under certain circumstances, notification may be postponed until the date the value of the transactions performed for that

person's own account, together with transactions carried out by the persons closely associated with that person, amounts to €5,000 or more in the calendar year in question.

Non-compliance with the notification obligations under the FMSA could lead to criminal fines, administrative fines, imprisonment or other sanctions. In addition, non-compliance with some of the notification obligations under the FMSA may lead to civil sanctions, including suspension of the voting rights relating to our shares held by the offender for a period of not more than three years and a prohibition to own shares or voting rights on our shares for a period of not more than five years.

The AFM does not issue separate public announcements of notifications received by it. It does, however, keep a public register of all notifications under the FMSA on its website, http://www.afm.nl. Third parties can request to be notified automatically by e-mail of changes to the public register in relation to a particular company's shares or a particular notifying party.

The FMSA contains rules intended to prevent market abuse, such as insider trading, tipping and market manipulation.

Pursuant to the rules intended to prevent market abuse, we have adopted an internal code on inside information in respect of the holding of and carrying out of transactions by our managing directors and supervisory directors and employees in our shares or in financial instruments the value of which is determined by the value of our shares. Furthermore, we have drawn up a list of those persons working for us who could have access to inside information on a regular or incidental basis and have informed such persons of the rules on insider trading and market manipulation, including the sanctions which can be imposed in the event of a violation of those rules.

COMPARISON OF DUTCH LAW AND OUR ARTICLES OF ASSOCIATION AND U.S. CORPORATE LAW

The following comparison between Dutch corporation law, which applies to us, and Delaware corporation law, the law under which many publicly listed corporations in the United States are incorporated, discusses additional matters not otherwise described in this prospectus. Although we believe this summary is materially accurate, the summary is subject to Dutch law, including Book 2 of the Dutch Civil Code and the DCGC and Delaware corporation law, including the Delaware General Corporation Law.

Corporate Governance

Duties of directors

The Netherlands. We have a two-tier board structure consisting of our management board (raad van bestuur) and a separate supervisory board (raad van commissarissen).

Under Dutch law, the management board is collectively responsible for the management and the strategy, policy and operations of the company. The supervisory board is responsible for supervising the conduct of and providing advice to the management board and for supervising the business generally. Furthermore, each member of the management board and the supervisory board has a duty to act in the corporate interest of the company and the business connected with it. Under Dutch law, the corporate interest extends to the interests of all corporate stakeholders, such as shareholders, creditors, employees, customers and suppliers. The duty to act in the corporate interest of the company also applies in the event of a proposed sale or break-up of the company, whereby the circumstances generally dictate how such duty is to be applied.

Delaware. The board of directors bears the ultimate responsibility for managing the business and affairs of a corporation. In discharging this function, directors of a Delaware corporation owe fiduciary duties of care and loyalty to the corporation and to its stockholders. Delaware courts have decided that the directors of a Delaware corporation are required to exercise informed business judgment in the performance of their duties. Informed business judgment means that the directors have informed themselves of all material information reasonably available to them. Delaware courts have also imposed a heightened standard of conduct upon directors of a Delaware corporation who take any action designed to defeat a threatened change in control of the corporation. In addition, under Delaware law, when the board of directors of a Delaware corporation approves the sale or break-up

of a corporation, the board of directors may, in certain circumstances, have a duty to obtain the highest value reasonably available to the stockholders.

Director terms

The Netherlands. Under Dutch law, managing directors and supervisory directors of a listed company are generally appointed for an individual term of a maximum of four years. There is no limit to the number of consecutive terms managing directors may serve. For supervisory directors, a limit of twelve years generally applies. Our managing directors are appointed by the general meeting of shareholders for an indefinite period of time. Our supervisory directors are also appointed by the general meeting of shareholders for a term of up to four years. A supervisory director may be reappointed for a term of up to four years at a time. A supervisory director may be a supervisory director for a period not longer than twelve years, which period may or may not be interrupted, unless the general meeting of shareholders resolves otherwise.

The supervisory board has drawn up a resignation schedule for the supervisory directors.

The general meeting of shareholders shall at all times be entitled to suspend or dismiss a member of the management board or supervisory board. The general meeting of shareholders may only adopt a resolution to suspend or dismiss such a member with a two thirds majority of the votes cast, if such majority represents more than half of the issued share capital, unless the proposal was made by the supervisory board, in which case a simple majority is sufficient. The supervisory board may at all times suspend (but not dismiss) a member of the management board.

Delaware. The Delaware General Corporation Law generally provides for a one-year term for directors, but permits directorships to be divided into up to three classes with up to three-year terms, with the years for each class expiring in different years, if permitted by the certificate of incorporation, an initial bylaw or a bylaw adopted by the stockholders. A director elected to serve a term on a "classified" board may not be removed by stockholders without cause. There is no limit in the number of terms a director may serve.

Director vacancies

The Netherlands. Under Dutch law, new managing directors and supervisory directors are appointed by the general meeting of shareholders. Under our Articles of Association, our managing directors and supervisory directors are appointed by the general meeting of shareholders upon the binding nomination by our supervisory board. However, the general meeting of shareholders may at all times overrule the binding nomination with a two thirds majority of the votes cast, if such majority represents more than half of the issued share capital. If the general meeting of shareholders overrules the binding nomination, the supervisory board shall make a new binding nomination.

Delaware. The Delaware General Corporation Law provides that vacancies and newly created directorships may be filled by a majority of the directors then in office (even though less than a quorum) unless (i) otherwise provided in the certificate of incorporation or bylaws of the corporation or (ii) the certificate of incorporation directs that a particular class of stock is to elect such director, in which case any other directors elected by such class, or a sole remaining director elected by such class, will fill such vacancy.

Conflict-of-interest transactions

The Netherlands. Managing directors and supervisory directors shall not take part in any discussion or decision-making that involves a subject or transaction in relation to which he or she has a personal conflict of interest with the company or the business connected with it. Our Articles of Association provide that if as a result thereof no resolution of the management board can be adopted, the resolution is adopted by the supervisory board. If as a result of the conflict of interest of supervisory directors no resolution of the supervisory board can be adopted, the resolution can nonetheless be adopted by the supervisory board. In that case, each supervisory board member is entitled to participate in the discussion and decision making process of the supervisory board and to cast a vote.

Delaware. The Delaware General Corporation Law generally permits transactions involving a Delaware corporation and an interested director of that corporation if:

- · the material facts as to the director's relationship or interest are disclosed and a majority of disinterested directors consent;
- the material facts are disclosed as to the director's relationship or interest and a majority of shares entitled to vote thereon consent; or
- the transaction is fair to the corporation at the time it is authorized by the board of directors, a committee of the board of directors or the stockholders.

Proxy voting by directors

The Netherlands. An absent member of the management board may issue a proxy for a specific management board meeting but only to another management board member in writing. An absent member of the supervisory board may issue a proxy for a specific supervisory board meeting but only to another supervisory board member in writing.

Delaware. A director of a Delaware corporation may not issue a proxy representing the director's voting rights as a director.

Dutch Corporate Governance Code

The DCGC contains both principles and best practice provisions for management boards, supervisory boards, shareholders and general meetings of shareholders, financial reporting, auditors, disclosure, compliance and enforcement standards. A copy of the DCGC can be found on www.corpgov.nl. As a Dutch company, we are subject to the DCGC and are required to disclose in our annual report, filed in the Netherlands, whether we comply with the provisions of the DCGC. If we do not comply with the provisions of the DCGC (for example, because of a conflicting Nasdaq requirement or otherwise), we must list the reasons for any deviation from the DCGC in our annual report. Our most substantial deviations from the DCGC are summarized below.

Remuneration

We have granted and intend to grant options and restricted stock units in the future to members of our supervisory board, which qualifies as a deviation from best practice provision III.7.1 of the DCGC.

Re-pricing of stock options

We are following home country rules relating to the re-pricing of stock options under the 2014 Plan. Under applicable Dutch law, re-pricing of stock options is permissible, but constitutes a deviation from best practice provision II.2.7 of the DGCG where it concerns the stock options granted to our managing directors and supervisory directors.

Board nominations and shareholder voting

• Pursuant to our articles of association, the supervisory board will nominate one or more candidates for each vacant seat on the management board or the supervisory board. A resolution of our general meeting of shareholders to appoint a member of the management board or the supervisory board other than pursuant to a nomination by our supervisory board requires at least two-thirds of the votes cast representing more than half of our issued share capital, which qualifies as a deviation from best practice provision IV.1.1 of the DCGC.

Independence

· More than one of our current members of the supervisory board are not deemed independent based on the standards set out in the DCGC, which qualifies as a deviation from best practice provisions III.2.1 and III.2.2 of the DCGC.

Shareholder rights

Voting rights

The Netherlands. In accordance with Dutch law and our Articles of Association, each issued common share and each issued cumulative preferred share confers the right to cast one vote at the general meeting of shareholders. Each holder of shares may cast as many votes as it holds shares. Shares that are held by us or our direct or indirect subsidiaries do not confer the right to vote.

In accordance with our Articles of Association, for each general meeting of shareholders, the management board may determine that a record date will be applied in order to establish which shareholders are entitled to attend and vote at the general meeting of shareholders. Such record date shall be the 28th day prior to the day of the general meeting. The record date and the manner in which shareholders can register and exercise their rights will be set out in the notice of the meeting.

Delaware. Under the Delaware General Corporation Law, each stockholder is entitled to one vote per share of stock, unless the certificate of incorporation provides otherwise. In addition, the certificate of incorporation may provide for cumulative voting at all elections of directors of the corporation, or at elections held under specified circumstances. Either the certificate of incorporation or the bylaws may specify the number of shares and/or the amount of other securities that must be represented at a meeting in order to constitute a quorum, but in no event will a quorum consist of less than one third of the shares entitled to vote at a meeting.

Stockholders as of the record date for the meeting are entitled to vote at the meeting, and the board of directors may fix a record date that is no more than 60 nor less than 10 days before the date of the meeting, and if no record date is set then the record date is the close of business on the day next preceding the day on which notice is given, or if notice is waived then the record date is the close of business on the day next preceding the day on which the meeting is held. The determination of the stockholders of record entitled to notice or to vote at a meeting of stockholders shall apply to any adjournment of the meeting, but the board of directors may fix a new record date for the adjourned meeting.

Shareholder proposals

The Netherlands. Pursuant to our Articles of Association, extraordinary general meetings of shareholders will be held whenever our supervisory board or management board deems such to be necessary. Pursuant to Dutch law, one or more shareholders representing at least one-tenth of the issued capital may, on their application, be authorized by a Dutch district court to convene a general meeting of shareholders. The district court shall disallow the application if it does not appear that the applicants have previously requested the management board and the supervisory board to convene a general meeting of shareholders and neither the management nor the supervisory board has taken the necessary steps so that the general meeting of shareholders could be held within six weeks after the request.

Also, the agenda for a general meeting of shareholders shall include such items requested by one or more shareholders, and others entitled to attend general meetings of shareholders, representing at least 3% of the issued share capital, except where the articles of association state a lower percentage. Our Articles of Association do not state such lower percentage. Requests must be made in writing and received by the management board at least 60 days before the day of the convocation of the meeting. In accordance with the DCGC, a shareholder shall exercise the right of putting an item on the agenda only after consulting the management board in that respect. If one or more shareholders intend to request that an item be put on the agenda that may result in a change in the company's strategy, the management board may invoke a response time of a maximum of 180 days until the day of the general meeting of shareholders.

Delaware. Delaware law does not specifically grant stockholders the right to bring business before an annual or special meeting. However, if a Delaware corporation is subject to the SEC's proxy rules, a stockholder who owns at least \$2,000 in market value, or 1% of the corporation's securities entitled to vote, and has owned such securities for at least one year, may propose a matter for a vote at an annual or special meeting in accordance with those rules.

Action by written consent

The Netherlands. Under Dutch law, shareholders' resolutions may be adopted in writing without holding a meeting of shareholders, provided that (i) the articles of association allow such action by written consent, (ii) all shareholders agree on this practice for decision making and (iii) the resolution is adopted unanimously by all shareholders that are entitled to vote. The requirement of unanimity renders the adoption of shareholder resolutions without holding a meeting not feasible for publicly traded companies. Therefore, our Articles of Association do not provide for shareholder action by written consent.

Delaware. Although permitted by Delaware law, publicly listed companies do not typically permit stockholders of a corporation to take action by written consent.

Appraisal rights

The Netherlands. The concept of appraisal rights is not known as such under Dutch law.

However, in accordance with the directive 2005/56/EC of the European Parliament and the Council of 26 October 2005 on cross-border mergers of limited liability companies, Dutch law provides that, to the extent that the acquiring company in a cross-border merger is organized under the laws of another EU member state, a shareholder of a Dutch disappearing company who has voted against the cross-border merger may file a claim with the Dutch company for compensation. Such compensation is to be determined by one or more independent experts. The shares of such shareholder that are subject to such claim will cease to exist as of the moment of effectiveness of the cross-border merger. Payment by the acquiring company is only possible if the resolution to approve the cross-border merger by the corporate body of the other company or companies involved in the cross-border merger includes the acceptance of the rights of the shareholders of the Dutch company to oppose the cross-border merger.

Delaware. The Delaware General Corporation Law provides for stockholder appraisal rights, or the right to demand payment in cash of the judicially determined fair value of the stockholder's shares, in connection with certain mergers and consolidations.

Shareholder suits

The Netherlands. In the event a third party is liable to a Dutch company, only the company itself can bring a civil action against that party. The individual shareholders do not have the right to bring an action on behalf of the company. Only in the event that the cause for the liability of a third party to the company also constitutes a tortious act directly against a shareholder does that shareholder have an individual right of action against such third party in its own name. The Dutch Civil Code provides for the possibility to initiate such actions collectively. A foundation or an association whose objective is to protect the rights of a group of persons having similar interests can institute a collective action. The collective action itself cannot result in an order for payment of monetary damages but may only result in a declaratory judgment (verklaring voor recht). In order to obtain compensation for damages, the foundation or association and the defendant may reach—often on the basis of such declaratory judgment—a settlement. A Dutch court may declare the settlement agreement binding upon all the injured parties with an opt-out choice for an individual injured party. An individual injured party may also itself—outside the collective action—institute a civil claim for damages.

Delaware. Under the Delaware General Corporation Law, a stockholder may bring a derivative action on behalf of the corporation to enforce the rights of the corporation. An individual also may commence a class action suit on behalf of himself and other similarly situated stockholders where the requirements for maintaining a class action under Delaware law have been met. A person may institute and maintain such a suit only if that person was a stockholder at the time of the transaction which is the subject of the suit. In addition, under Delaware case law, the plaintiff normally must be a stockholder at the time of the transaction that is the subject of the suit and throughout the duration of the derivative suit. Delaware law also requires that the derivative plaintiff make a demand on the directors of the corporation to assert the corporate claim before the suit may be prosecuted by the derivative plaintiff in court, unless such a demand would be futile.

Repurchase of shares

The Netherlands. Under Dutch law, when issuing shares, a public company with limited liability such as ours may not subscribe for newly issued shares in its own capital. Such company may, however, subject to certain

restrictions of Dutch law and its articles of association, acquire shares in its own capital. A listed public company with limited liability may acquire fully paid shares in its own capital at any time for no valuable consideration. Furthermore, subject to certain provisions of Dutch law and its articles of association, such company may repurchase fully paid shares in its own capital if (i) the company's shareholders' equity less the payment required to make the acquisition does not fall below the sum of paid-up and called-up capital and any reserves required by Dutch law or its articles of association and (ii) the company and its subsidiaries would not thereafter hold shares or hold a pledge over shares with an aggregate par value exceeding 50% of its then current issued share capital. Such company may only acquire its own shares if its general meeting of shareholders has granted the management board the authority to effect such acquisitions.

An acquisition of common shares for a consideration must be authorized by our general meeting of shareholders. Such authorization may be granted for a maximum period of 18 months and must specify the number of common shares that may be acquired, the manner in which common shares may be acquired and the price limits within which common shares may be acquired. Authorization is not required for the acquisition of common shares in order to transfer them to our employees. The actual acquisition may only be effected by a resolution of our management board. At the general meeting held at June 9, 2015, the general meeting of shareholders authorized our management board acting with the approval of our supervisory board, for a period of 18 months (until December 9, 2016) to cause the repurchase of common shares by us of up to 10% of our issued share capital, for a price per share not exceeding 110% of the most recent closing price of a common share on any stock exchange where the common shares are listed.

No authorization of the general meeting of shareholders is required if common shares are acquired by us with the intention of transferring such common shares to our employees under an applicable employee stock purchase plan.

If we would decide to repurchase any of our shares, no votes could be cast at a general meeting of shareholders on the shares held by us or our subsidiaries or on shares for which we or our subsidiaries hold depositary receipts. Nonetheless, the holders of a right of use and enjoyment (*vruchtgebruik*) and the holders of a right of pledge in respect of shares held by us or our subsidiaries in our share capital are not excluded from the right to vote on such shares, if the right of use and enjoyment (*vruchtgebruik*) or the right of pledge was granted prior to the time such shares were acquired by us or any of our subsidiaries. Neither we nor any of our subsidiaries may cast votes in respect of a share on which we or such subsidiary holds a right of use and enjoyment (*vruchtgebruik*) or a right of pledge.

Delaware. Under the Delaware General Corporation Law, a corporation may purchase or redeem its own shares unless the capital of the corporation is impaired or the purchase or redeemption would cause an impairment of the capital of the corporation. A Delaware corporation may, however, purchase or redeem out of capital any of its preferred shares or, if no preferred shares are outstanding, any of its own shares if such shares will be retired upon acquisition and the capital of the corporation will be reduced in accordance with specified limitations.

Anti-Takeover Provisions

The Netherlands. Under Dutch law, various protective measures are possible and permissible within the boundaries set by Dutch law and Dutch case law. We have adopted several provisions that may have the effect of making a takeover of our company more difficult or less attractive, including:

- the authorization of a class of preferred shares that may be issued by our management board to a friendly party, subject to the approval of our supervisory board, in such a manner as to dilute the interest of any potential acquirer;
- the staggered four-year terms of our supervisory directors, as a result of which only approximately one-fourth of our managing directors and supervisory directors will be subject to election in any one year;
- a provision that our managing directors and supervisory directors may only be removed at the general meeting of shareholders by a two-thirds majority of votes cast representing at least 50% of our outstanding share capital if such removal is not proposed by our supervisory board; and

· requirements that certain matters, including an amendment of our Articles of Association, may only be brought to our shareholders for a vote upon a proposal by our management board that has been approved by our supervisory board.

Delaware. In addition to other aspects of Delaware law governing fiduciary duties of directors during a potential takeover, the Delaware General Corporation Law also contains a business combination statute that protects Delaware companies from hostile takeovers and from actions following the takeover by prohibiting some transactions once an acquirer has gained a significant holding in the corporation.

Section 203 of the Delaware General Corporation Law prohibits "business combinations," including mergers, sales and leases of assets, issuances of securities and similar transactions by a corporation or a subsidiary with an interested stockholder that beneficially owns 15% or more of a corporation's voting stock, within three years after the person becomes an interested stockholder, unless:

- the transaction that will cause the person to become an interested stockholder is approved by the board of directors of the target prior to the transactions;
- after the completion of the transaction in which the person becomes an interested stockholder, the interested stockholder holds at least 85% of the
 voting stock of the corporation not including shares owned by persons who are directors and officers of interested stockholders and shares owned by
 specified employee benefit plans; or
- after the person becomes an interested stockholder, the business combination is approved by the board of directors of the corporation and holders of at least 66.67% of the outstanding voting stock, excluding shares held by the interested stockholder.

A Delaware corporation may elect not to be governed by Section 203 by a provision contained in the original certificate of incorporation of the corporation or an amendment to the original certificate of incorporation or to the bylaws of the company, which amendment must be approved by a majority of the shares entitled to vote and may not be further amended by the board of directors of the corporation. In most cases, such an amendment is not effective until twelve months following its adoption.

Inspection of Books and Records

The Netherlands. The management board and the supervisory board provide the general meeting of shareholders in good time with all information that the shareholders require for the exercise of their powers, unless this would be contrary to an overriding interest of us. If the management board or supervisory board invokes an overriding interest, it must give reasons.

Delaware. Under the Delaware General Corporation Law, any stockholder may inspect for any proper purpose certain of the corporation's books and records during the corporation's usual hours of business.

Removal of Directors

The Netherlands. Under our Articles of Association, the general meeting of shareholders shall at all times be entitled to suspend or dismiss a member of the management board or supervisory board. The general meeting of shareholders may only adopt a resolution to suspend or dismiss such a member by at least a two-thirds majority of the votes cast, if such majority represents more than half of the issued share capital, unless the proposal was made by the supervisory board in which case a simple majority is sufficient.

Delaware. Under the Delaware General Corporation Law, any director or the entire board of directors may be removed, with or without cause, by the holders of a majority of the shares then entitled to vote at an election of directors, except (i) unless the certificate of incorporation provides otherwise, in the case of a corporation whose board is classified, stockholders may effect such removal only for cause, or (ii) in the case of a corporation having cumulative voting, if less than the entire board is to be removed, no director may be removed without cause if the votes cast against his removal would be sufficient to elect him if then cumulatively voted at an election of the entire board of directors, or, if there are classes of directors, at an election of the class of directors of which he is a part.

Preemptive Rights

The Netherlands. Under Dutch law, in the event of an issuance of common shares, each shareholder will have a pro rata preemptive right in proportion to the aggregate nominal value of the common shares held by such holder (with the exception of common shares to be issued to employees or common shares issued against a contribution other than in cash). Under our Articles of Association, the preemptive rights in respect of newly issued common shares may be restricted or excluded by a resolution of the general meeting of shareholders upon proposal of the management board, which proposal has been approved by the supervisory board.

The management board, subject to approval of the supervisory board, may restrict or exclude the preemptive rights in respect of newly issued common shares if it has been designated as the authorized body to do so by the general meeting of shareholders. Such designation can be granted for a period not exceeding five years. A resolution of the general meeting of shareholders to restrict or exclude the preemptive rights or to designate the management board as the authorized body to do so requires a majority of not less than two-thirds of the votes cast, if less than one-half of our issued share capital is represented at the meeting.

At a general meeting held at September 12, 2014, with effect from September 17, 2014, being the date of our conversion into a Dutch public limited liability company prior to the consummation of our initial public offering, the general meeting of shareholders authorized our management board acting with the approval of our supervisory board for a period of five years from the date of the consummation of our initial public offering (until September 17, 2019) to limit or exclude preemptive rights accruing to shareholders in connection with the issue of common shares or rights to subscribe for common shares.

No preemptive rights apply in respect of newly issued preferred shares.

Delaware. Under the Delaware General Corporation Law, stockholders have no preemptive rights to subscribe for additional issues of stock or to any security convertible into such stock unless, and to the extent that, such rights are expressly provided for in the certificate of incorporation.

Dividends

The Netherlands. Dutch law provides that dividends may be distributed after adoption of the annual accounts by the general meeting of shareholders from which it appears that such dividend distribution is allowed. Moreover, dividends may be distributed only to the extent the shareholders' equity exceeds the amount of the paid-up and called-up part of the issued share capital and the reserves that must be maintained under the law or the Articles of Association. Interim dividends may be declared as provided in the Articles of Association and may be distributed to the extent that the shareholders' equity exceeds the amount of the issued and paid-up and called-up part of the issued share capital and the required legal reserves as described above as apparent from our financial statements. Under Dutch law, the Articles of Association may prescribe that the management board decide what portion of the profits are to be held as reserves.

Under the Articles of Association, first, a dividend is paid out of the profit, if available for distribution, on the cumulative preferred shares. Any amount remaining out of the profit is carried to reserve as the management board determines, subject to the approval of the supervisory board. After reservation by the management board of any profit, the remaining profit will be at the disposal of the general meeting of shareholders. We only make a distribution of dividends to our shareholders after the adoption of our annual accounts demonstrating that such distribution is legally permitted. The management board is permitted, subject to certain requirements and subject to approval of the supervisory board, to declare interim dividends without the approval of the general meeting of shareholders.

Dividends and other distributions shall be made payable not later than the date determined by the management board. Claims to dividends and other distribution not made within five years from the date that such dividends or distributions became payable, will lapse and any such amounts will be considered to have been forfeited to us (*verjaring*).

Delaware. Under the Delaware General Corporation Law, a Delaware corporation may pay dividends out of its surplus (the excess of net assets over capital), or in case there is no surplus, out of its net profits for the fiscal year in which the dividend is declared and/or the preceding fiscal year (provided that the amount of the capital of the corporation is not less than the aggregate amount of the capital represented by the issued and outstanding stock of all

classes having a preference upon the distribution of assets). In determining the amount of surplus of a Delaware corporation, the assets of the corporation, including stock of subsidiaries owned by the corporation, must be valued at their fair market value as determined by the board of directors, without regard to their historical book value. Dividends may be paid in the form of common stock, property or cash.

Shareholder Vote on Certain Reorganizations

The Netherlands. Under Dutch law, the general meeting of shareholders must approve resolutions of the management board relating to a significant change in the identity or the character of the company or the business of the company, which includes:

- · a transfer of the business or virtually the entire business to a third party;
- the entry into or termination of a long-term cooperation of the company or a subsidiary with another legal entity or company or as a fully liable partner in a limited partnership or general partnership, if such cooperation or termination is of a far-reaching significance for the company; and
- the acquisition or divestment by the company or a subsidiary of a participating interest in the capital of a company having a value of at least one third of the amount of its assets according to its balance sheet and explanatory notes or, if the company prepares a consolidated balance sheet, according to its consolidated balance sheet and explanatory notes in the last adopted annual accounts of the company.

Delaware. Under the Delaware General Corporation Law, the vote of a majority of the outstanding shares of capital stock entitled to vote thereon generally is necessary to approve a merger or consolidation or the sale of all or substantially all of the assets of a corporation. The Delaware General Corporation Law permits a corporation to include in its certificate of incorporation a provision requiring for any corporate action the vote of a larger portion of the stock or of any class or series of stock than would otherwise be required.

Under the Delaware General Corporation Law, no vote of the stockholders of a surviving corporation to a merger is needed, however, unless required by the certificate of incorporation, if (i) the agreement of merger does not amend in any respect the certificate of incorporation of the surviving corporation, (ii) the shares of stock of the surviving corporation are not changed in the merger and (iii) the number of shares of common stock of the surviving corporation into which any other shares, securities or obligations to be issued in the merger may be converted does not exceed 20% of the surviving corporation's common stock outstanding immediately prior to the effective date of the merger. In addition, stockholders may not be entitled to vote in certain mergers with other corporations that own 90% or more of the outstanding shares of each class of stock of such corporation, but the stockholders will be entitled to appraisal rights.

Remuneration of Directors

The Netherlands. Under Dutch law and our Articles of Association, we must adopt a remuneration policy for our managing directors. Such remuneration policy shall be adopted by the general meeting of shareholders upon the proposal of the supervisory board. The supervisory board determines the remuneration of the management board in accordance with the remuneration policy. A proposal with respect to remuneration policies in the form of shares or rights to shares must be submitted to the general meeting of shareholders for its approval.

The general meeting may determine the remuneration of supervisory directors. The supervisory directors shall be reimbursed for their expenses.

Delaware. Under the Delaware General Corporation Law, the stockholders do not generally have the right to approve the compensation policy for directors or the senior management of the corporation, although certain aspects of executive compensation may be subject to stockholder vote due to the provisions of U.S. federal securities and tax law, as well as exchange requirements.

DESCRIPTION OF DEBT SECURITIES

The debt securities will be our direct general obligations. The debt securities will be either senior debt securities or subordinated debt securities and may be secured or unsecured and may be convertible into other securities,

including our common shares. The debt securities will be issued under one or more separate indentures between our company and a financial institution that will act as trustee. Senior debt securities will be issued under a senior indenture. Subordinated debt securities will be issued under a subordinated indenture. Each of the senior indenture and the subordinated indenture is referred to individually as an indenture and collectively as the indentures. Each of the senior debt trustee and the subordinated debt trustee is referred to individually as a trustee and collectively as the trustees. The material terms of any indenture will be set forth in the applicable prospectus supplement.

We have summarized certain terms and provisions of the indentures. The summary is not complete. The indentures are subject to and governed by the Trust Indenture Act of 1939, as amended. The senior indenture and subordinated indenture are substantially identical, except for the provisions relating to subordination.

Neither indenture will limit the amount of debt securities that we may issue. We may issue debt securities up to an aggregate principal amount as we may authorize from time to time. The applicable prospectus supplement will describe the terms of any debt securities being offered. These terms will include some or all of the following:

- · classification as senior or subordinated debt securities;
- · ranking of the specific series of debt securities relative to other outstanding indebtedness, including subsidiaries' debt;
- if the debt securities are subordinated, the aggregate amount of outstanding indebtedness, as of a recent date, that is senior to the subordinated securities, and any limitation on the issuance of additional senior indebtedness;
- the designation, aggregate principal amount and authorized denominations;
- the date or dates on which the principal of the debt securities may be payable;
- the rate or rates (which may be fixed or variable) per annum at which the debt securities shall bear interest, if any;
- the date or dates from which such interest shall accrue, on which such interest shall be payable, and on which a record shall be taken for the determination of holders of the debt securities to whom interest is payable;
- the place or places where the principal and interest shall be payable;
- our right, if any, to redeem the debt securities, in whole or in part, at our option and the period or periods within which, the price or prices at which and any terms and conditions upon which such debt securities may be so redeemed, pursuant to any sinking fund or otherwise;
- · our obligation, if any, of the Company to redeem, purchase or repay any debt securities pursuant to any mandatory redemption, sinking fund or other provisions or at the option of a holder of the debt securities;
- · if other than denominations of \$2,000 and any higher integral multiple of \$1,000, the denominations in which the debt securities will be issuable;
- · if other than the currency of the United States, the currency or currencies, in which payment of the principal and interest shall be payable;
- · whether the debt securities will be issued in the form of global securities;
- · provisions, if any, for the defeasance of the debt securities;
- · any U.S. federal income tax consequences; and
- other specific terms, including any deletions from, modifications of or additions to the events of default or covenants described below or in the applicable indenture.

Senior Debt

We may issue under the senior indenture the debt securities that will constitute part of our senior debt. These senior debt securities will rank equally and pari passu with all our other unsecured and unsubordinated debt.

Subordinated Debt

We may issue under the subordinated indenture the debt securities that will constitute part of our subordinated debt. These subordinated debt securities will be subordinate and junior in right of payment, to the extent and in the manner set forth in the subordinated indenture, to all our "senior indebtedness." "Senior indebtedness" is defined in the subordinated indenture and generally includes obligations of, or guaranteed by, us for borrowed money, or as evidenced by bonds, debentures, notes or other similar instruments, or in respect of letters of credit or other similar instruments, or to pay the deferred purchase price of property or services, or as a lessee under capital leases, or as secured by a lien on any asset of ours. "Senior indebtedness" does not include the subordinated debt securities or any other obligations specifically designated as being subordinate in right of payment to, or pari passu with, the subordinated debt securities. In general, the holders of all senior indebtedness are first entitled to receive payment in full of such senior indebtedness before the holders of any of the subordinated debt securities are entitled to receive a payment on account of the principal or interest on the indebtedness evidenced by the subordinated debt securities in certain events. These events include:

- · subject to Dutch law, any insolvency or bankruptcy proceedings, or any receivership, dissolution, winding up, total or partial liquidation, reorganization or other similar proceedings in respect of us or a substantial part of our property, whether voluntary or involuntary;
- (i) a default having occurred with respect to the payment of principal or interest on or other monetary amounts due and payable with respect to any senior indebtedness or (ii) an event of default (other than a default described in clause (i) above) having occurred with respect to any senior indebtedness that permits the holder or holders of such senior indebtedness to accelerate the maturity of such senior indebtedness. Such a default or event of default must have continued beyond the period of grace, if any, provided in respect of such default or event of default, and such a default or event of default shall not have been cured or waived or shall not have ceased to exist; and
- the principal of, and accrued interest on, any series of the subordinated debt securities having been declared due and payable upon an event of default pursuant to the subordinated indenture. This declaration must not have been rescinded and annulled as provided in the subordinated indenture.

Authentication and Delivery

We will deliver the debt securities to the trustee for authentication, and the trustee will authenticate and deliver the debt securities upon our written order.

Events of Default

When we use the term "Event of Default" in the indentures with respect to the debt securities of any series, set forth below are some examples of what we mean:

- (1) default in the payment of the principal on the debt securities when it becomes due and payable at maturity or otherwise;
- (2) default in the payment of interest on the debt securities when it becomes due and payable, and such default continues for a period of 30 days;
- (3) default in the performance, or breach, of any covenant in the indenture (other than defaults specified in clauses (1) or (2) above) and the default or breach continues for a period of 90 consecutive days or more after written notice to us by the trustee or to us and the trustee by the holders of 25% or more in aggregate principal amount of the outstanding debt securities of all series affected thereby;
- (4) the occurrence of certain events of bankruptcy, insolvency, or similar proceedings with respect to us or any substantial part of our property; or

(5) any other Events of Default that may be set forth in the applicable prospectus supplement.

If an Event of Default (other than an Event of Default specified in clause (4) above) with respect to the debt securities of any series then outstanding occurs and is continuing, then either the trustee or the holders of not less than 25% in principal amount of the securities of all such series then outstanding in respect of which an Event of Default has occurred may by notice in writing to us declare the entire principal amount of all debt securities of the affected series, and accrued interest, if any, to be due and payable immediately, and upon any such declaration the same shall become immediately due and payable.

If an Event of Default described in clause (4) above occurs and is continuing, then the principal amount of all the debt securities then outstanding and accrued interest shall be and become due immediately and payable without any declaration, notice or other action by any holder of the debt securities or the trustee.

The trustee will, within 90 days after the occurrence of any default actually known to it, give notice of the default to the holders of the debt securities of that series, unless the default was already cured or waived. Unless there is a default in paying principal or interest when due, the trustee can withhold giving notice to the holders if it determines in good faith that the withholding of notice is in the interest of the holders.

Satisfaction, Discharge and Defeasance

We may discharge our obligations under each indenture, except as to:

- · the rights of registration of transfer and exchange of debt securities, and our right of optional redemption, if any;
- · substitution of mutilated, defaced, destroyed, lost or stolen debt securities;
- · the rights of holders of the debt securities to receive payments of principal and interest;
- · the rights, obligations and immunities of the trustee; and
- the rights of the holders of the debt securities as beneficiaries with respect to the property deposited with the trustee payable to them (as described below);

when:

- · either:
 - · all debt securities of any series issued that have been authenticated and delivered have been delivered by us to the trustee for cancellation; or
 - all the debt securities of any series issued that have not been delivered by us to the trustee for cancellation have become due and payable or will
 become due and payable within one year or are to be called for redemption within one year under arrangements satisfactory to the trustee for the
 giving of notice of redemption by such trustee in our name and at our expense, and we have irrevocably deposited or caused to be deposited with
 the trustee as trust funds the entire amount sufficient to pay at maturity or upon redemption all debt securities of such series not delivered to the
 trustee for cancellation, including principal and interest due or to become due on or prior to such date of maturity or redemption;
- \cdot $\;$ we have paid or caused to be paid all other sums then due and payable under such indenture; and
- · we have delivered to the trustee an officers' certificate and an opinion of counsel, each stating that all conditions precedent under such indenture relating to the satisfaction and discharge of such indenture have been complied with.

In addition, unless the applicable prospectus supplement and supplemental indenture otherwise provide, we may elect either (i) to have our obligations under each indenture discharged with respect to the outstanding debt securities of any series ("legal defeasance") or (ii) to be released from our obligations under each indenture with respect to

certain covenants applicable to the outstanding debt securities of any series ("covenant defeasance"). Legal defeasance means that we will be deemed to have paid and discharged the entire indebtedness represented by the outstanding debt securities of such series under such indenture and covenant defeasance means that we will no longer be required to comply with the obligations with respect to such covenants (and an omission to comply with such obligations will not constitute a default or event of default).

In order to exercise legal defeasance or covenant defeasance with respect to outstanding debt securities of any series:

- · we must irrevocably have deposited or caused to be deposited with the trustee as trust funds in trust for the purpose of making the following payments, specifically pledged as security for, and dedicated solely to the benefits of the holders of the debt securities of a series:
 - · money in an amount;
 - · U.S. government obligations; or
 - · a combination of money and U.S. government obligations,

in each case sufficient without reinvestment, in the written opinion of a nationally recognized firm of independent public accountants, to pay and discharge, and which shall be applied by the trustee to pay and discharge, all of the principal and interest at due date or maturity or if we have made irrevocable arrangements satisfactory to the trustee for the giving of notice of redemption by the trustee, the redemption date;

- we have delivered to the trustee an opinion of counsel stating that, under then applicable U.S. federal income tax law, the holders of the debt securities of that series will not recognize gain or loss for U.S. federal income tax purposes as a result of the defeasance and will be subject to the same federal income tax as would be the case if the defeasance did not occur;
- · no default relating to bankruptcy or insolvency and, in the case of a covenant defeasance, no other default has occurred and is continuing at any time;
- if at such time the debt securities of such series are listed on a national securities exchange, we have delivered to the trustee an opinion of counsel to the effect that the debt securities of such series will not be delisted as a result of such defeasance; and
- · we have delivered to the trustee an officers' certificate and an opinion of counsel stating that all conditions precedent with respect to the defeasance have been complied with.

We are required to furnish to each trustee an annual statement as to compliance with all conditions and covenants under the indenture.

DESCRIPTION OF WARRANTS

We may issue warrants to purchase debt securities, common shares or other securities. We may issue warrants independently or together with other securities. Warrants sold with other securities may be attached to or separate from the other securities. We will issue warrants under one or more warrant agreements between our company and a warrant agent that we will name in the applicable prospectus supplement.

The prospectus supplement relating to any warrants we offer will include specific terms relating to the offering. These terms will include some or all of the following:

- · the title of the warrants;
- the aggregate number of warrants offered;

- the designation, number and terms of the debt securities, common shares or other securities purchasable upon exercise of the warrants and procedures by which those numbers may be adjusted;
- · the exercise price of the warrants;
- the dates or periods during which the warrants are exercisable;
- the designation and terms of any securities with which the warrants are issued;
- · if the warrants are issued as a unit with another security, the date on and after which the warrants and the other security will be separately transferable;
- if the exercise price is not payable in U.S. dollars, the foreign currency, currency unit or composite currency in which the exercise price is denominated:
- · any minimum or maximum amount of warrants that may be exercised at any one time;
- · any terms relating to the modification of the warrants;
- · any terms, procedures and limitations relating to the transferability, exchange or exercise of the warrants; and
- · any other specific terms of the warrants.

The terms of any warrants to be issued and a description of the material provisions of the applicable warrant agreement will be set forth in the applicable prospectus supplement.

DESCRIPTION OF PURCHASE CONTRACTS

We may issue purchase contracts for the purchase or sale of debt or equity securities issued by us or securities of third parties, a basket of such securities, an index or indices or such securities or any combination of the above as specified in the applicable prospectus supplement.

Each purchase contract will entitle the holder thereof to purchase or sell, and obligate us to sell or purchase, on specified dates, such securities at a specified purchase price, which may be based on a formula, all as set forth in the applicable prospectus supplement. We may, however, satisfy our obligations, if any, with respect to any purchase contract by delivering the cash value of such purchase contract or the cash value of the property otherwise deliverable as set forth in the applicable prospectus supplement. The applicable prospectus supplement will also specify the methods by which the holders may purchase or sell such securities and any acceleration, cancellation or termination provisions or other provisions relating to the settlement of a purchase contract.

The purchase contracts may require us to make periodic payments to the holders thereof or vice versa, which payments may be deferred to the extent set forth in the applicable prospectus supplement, and those payments may be unsecured or prefunded on some basis. The purchase contracts may require the holders thereof to secure their obligations in a specified manner to be described in the applicable prospectus supplement. Alternatively, purchase contracts may require holders to satisfy their obligations thereunder when the purchase contracts are issued. Our obligation to settle such pre-paid purchase contracts on the relevant settlement date may constitute indebtedness. Accordingly, pre-paid purchase contracts will be issued under either the senior indenture or the subordinated indenture.

DESCRIPTION OF UNITS

As specified in the applicable prospectus supplement, we may issue units consisting of one or more common shares, debt securities, warrants, purchase contracts or any combination of such securities. The applicable prospectus supplement will describe:

- the terms of the units and of the common shares, debt securities, warrants and/ or purchase contracts comprising the units, including whether and under what circumstances the securities comprising the units may be traded separately;
- · a description of the terms of any unit agreement governing the units; and
- · a description of the provisions for the payment, settlement, transfer or exchange of the units.

FORMS OF SECURITIES

Each debt security, warrant and unit will be represented either by a certificate issued in definitive form to a particular investor or by one or more global securities representing the entire issuance of securities. Certificated securities in definitive form and global securities will be issued in registered form. Definitive securities name you or your nominee as the owner of the security, and in order to transfer or exchange these securities or to receive payments other than interest or other interim payments, you or your nominee must physically deliver the securities to the trustee, registrar, paying agent or other agent, as applicable. Global securities name a depositary or its nominee as the owner of the debt securities, warrants or units represented by these global securities. The depositary maintains a computerized system that will reflect each investor's beneficial ownership of the securities through an account maintained by the investor with its broker/dealer, bank, trust company or other representative, as we explain more fully below.

Registered Global Securities

We may issue the registered debt securities, warrants and units in the form of one or more fully registered global securities that will be deposited with a depositary or its nominee identified in the applicable prospectus supplement and registered in the name of that depositary or nominee. In those cases, one or more registered global securities will be issued in a denomination or aggregate denominations equal to the portion of the aggregate principal or face amount of the securities to be represented by registered global securities. Unless and until it is exchanged in whole for securities in definitive registered form, a registered global security may not be transferred except as a whole by and among the depositary for the registered global security, the nominees of the depositary or any successors of the depositary or those nominees.

If not described below, any specific terms of the depositary arrangement with respect to any securities to be represented by a registered global security will be described in the prospectus supplement relating to those securities. We anticipate that the following provisions will apply to all depositary arrangements.

Ownership of beneficial interests in a registered global security will be limited to persons, called participants, that have accounts with the depositary or persons that may hold interests through participants. Upon the issuance of a registered global security, the depositary will credit, on its book-entry registration and transfer system, the participants' accounts with the respective principal or face amounts of the securities beneficially owned by the participants. Any dealers, underwriters or agents participating in the distribution of the securities will designate the accounts to be credited. Ownership of beneficial interests in a registered global security will be shown on, and the transfer of ownership interests will be effected only through, records maintained by the depositary, with respect to interests of participants, and on the records of participants, with respect to interests of persons holding through participants. The laws of some states may require that some purchasers of securities take physical delivery of these securities in definitive form. These laws may impair your ability to own, transfer or pledge beneficial interests in registered global securities.

So long as the depositary, or its nominee, is the registered owner of a registered global security, that depositary or its nominee, as the case may be, will be considered the sole owner or holder of the securities represented by the registered global security for all purposes under the applicable indenture, warrant agreement or unit agreement. Except as described below, owners of beneficial interests in a registered global security will not be entitled to have the securities represented by the registered global security registered in their names, will not receive or be entitled to receive physical delivery of the securities in definitive form and will not be considered the owners or holders of the securities under the applicable indenture, warrant agreement or unit agreement. Accordingly, each person owning a beneficial interest in a registered global security must rely on the procedures of the depositary for that registered global security and, if that person is not a participant, on the procedures of the participant through which the person

owns its interest, to exercise any rights of a holder under the applicable indenture, warrant agreement or unit agreement. We understand that under existing industry practices, if we request any action of holders or if an owner of a beneficial interest in a registered global security desires to give or take any action that a holder is entitled to give or take under the applicable indenture, warrant agreement or unit agreement, the depositary for the registered global security would authorize the participants holding the relevant beneficial interests to give or take that action, and the participants would authorize beneficial owners owning through them to give or take that action or would otherwise act upon the instructions of beneficial owners holding through them.

Principal, premium, if any, and interest payments on debt securities, and any payments to holders with respect to warrants or units, represented by a registered global security registered in the name of a depositary or its nominee will be made to the depositary or its nominee, as the case may be, as the registered owner of the registered global security. None of Affimed N.V., its affiliates, the trustees, the warrant agents, the unit agents or any other agent of Affimed N.V., agent of the trustees or agent of the warrant agents or unit agents will have any responsibility or liability for any aspect of the records relating to payments made on account of beneficial ownership interests in the registered global security or for maintaining, supervising or reviewing any records relating to those beneficial ownership interests.

We expect that the depositary for any of the securities represented by a registered global security, upon receipt of any payment of principal, premium, interest or other distribution of underlying securities or other property to holders on that registered global security, will immediately credit participants' accounts in amounts proportionate to their respective beneficial interests in that registered global security as shown on the records of the depositary. We also expect that payments by participants to owners of beneficial interests in a registered global security held through participants will be governed by standing customer instructions and customary practices, as is now the case with the securities held for the accounts of customers in bearer form or registered in "street name," and will be the responsibility of those participants.

If the depositary for any of these securities represented by a registered global security is at any time unwilling or unable to continue as depositary or ceases to be a clearing agency registered under the Exchange Act, and a successor depositary registered as a clearing agency under the Exchange Act is not appointed by us within 90 days, we will issue securities in definitive form in exchange for the registered global security that had been held by the depositary. Any securities issued in definitive form in exchange for a registered global security will be registered in the name or names that the depositary gives to the relevant trustee, warrant agent, unit agent or other relevant agent of ours or theirs. It is expected that the depositary's instructions will be based upon directions received by the depositary from participants with respect to ownership of beneficial interests in the registered global security that had been held by the depositary.

PLAN OF DISTRIBUTION

We, or the selling shareholders, as applicable, may sell the securities in one or more of the following ways (or in any combination) from time to time:

- · through underwriters or dealers;
- · directly to a limited number of purchasers or to a single purchaser;
- · in "at-the-market" offerings, within the meaning of Rule 415(a)(4) of the Securities Act, to or through a market maker or into an existing trading market on an exchange or otherwise;
- · through agents; or
- · through any other method permitted by applicable law and described in the applicable prospectus supplement.

The prospectus supplement will state the terms of the offering of the securities, including:

- the name or names of any underwriters, dealers or agents;
- · the purchase price of such securities and the proceeds to be received by us, if any;

- · any underwriting discounts or agency fees and other items constituting underwriters' or agents' compensation;
- · any initial public offering price;
- · any discounts or concessions allowed or reallowed or paid to dealers; and
- · any securities exchanges on which the securities may be listed.

Any initial public offering price and any discounts or concessions allowed or reallowed or paid to dealers may be changed from time to time.

If underwriters are used in the sale, the securities will be acquired by the underwriters for their own account and may be resold from time to time in one or more transactions, including:

- · negotiated transactions;
- · at a fixed public offering price or prices, which may be changed;
- · at market prices prevailing at the time of sale;
- · at prices related to prevailing market prices; or
- at negotiated prices.

Unless otherwise stated in a prospectus supplement, the obligations of the underwriters to purchase any securities will be conditioned on customary closing conditions and the underwriters will be obligated to purchase all of such series of securities, if any are purchased.

The securities may be sold through agents from time to time. The prospectus supplement will name any agent involved in the offer or sale of the securities and any commissions paid to them. Generally, any agent will be acting on a best efforts basis for the period of its appointment.

Sales to or through one or more underwriters or agents in at-the-market offerings will be made pursuant to the terms of a distribution agreement with the underwriters or agents. Such underwriters or agents may act on an agency basis or on a principal basis. During the term of any such agreement, shares may be sold on a daily basis on any stock exchange, market or trading facility on which the common shares are traded, in privately negotiated transactions or otherwise as agreed with the underwriters or agents. The distribution agreement will provide that any common share sold will be sold at negotiated prices or at prices related to the then prevailing market prices for our common shares. Therefore, exact figures regarding proceeds that will be raised or commissions to be paid cannot be determined at this time and will be described in a prospectus supplement. Pursuant to the terms of the distribution agreement, we may also agree to sell, and the relevant underwriters or agents may agree to solicit offers to purchase, blocks of our common shares or other securities. The terms of each such distribution agreement will be described in a prospectus supplement.

We, or the selling shareholders, as applicable, may authorize underwriters, dealers or agents to solicit offers by certain purchasers to purchase the securities at the public offering price set forth in the prospectus supplement pursuant to delayed delivery contracts providing for payment and delivery on a specified date in the future. The contracts will be subject only to those conditions set forth in the prospectus supplement, and the prospectus supplement will set forth any commissions paid for solicitation of these contracts.

Underwriters and agents may be entitled under agreements entered into with us to indemnification by us and/or the selling shareholders, if applicable, against certain civil liabilities, including liabilities under the Securities Act, or to contribution with respect to payments which the underwriters or agents may be required to make.

The prospectus supplement may also set forth whether or not underwriters may over-allot or effect transactions that stabilize, maintain or otherwise affect the market price of the securities at levels above those that might otherwise prevail in the open market, including, for example, by entering stabilizing bids, effecting syndicate covering transactions or imposing penalty bids.

Underwriters and agents may be customers of, engage in transactions with, or perform services for us and our affiliates in the ordinary course of business.

Each series of securities will be a new issue of securities and will have no established trading market, other than our common shares, which are listed on Nasdaq Global Market. Any underwriters to whom securities are sold for public offering and sale may make a market in the securities, but such underwriters will not be obligated to do so and may discontinue any market making at any time without notice. The securities, other than our common shares, may or may not be listed on a national securities exchange.

INCORPORATION OF CERTAIN INFORMATION BY REFERENCE

The SEC allows us to incorporate by reference information into this document. This means that we can disclose important information to you by referring you to another document filed separately with the SEC. The information incorporated by reference is considered to be a part of this document, except for any information superseded by information that is included directly in this prospectus or incorporated by reference subsequent to the date of this prospectus.

We incorporate by reference the following documents or information that we have filed with the SEC

- · Our 2014 Annual Report on Form 20-F for the fiscal year ended December 31, 2014
- · Our Forms 6-K filed on May 21, 2015 and August 4, 2015; and
- The description of our common shares contained in our registration statement on Form 8-A filed with the SEC on September 10, 2014, including any amendments or reports filed for the purpose of updating such description.

All annual reports we file with the SEC pursuant to the Exchange Act on Form 20-F after the date of this prospectus and prior to termination or expiration of this registration statement shall be deemed incorporated by reference into this prospectus and to be part hereof from the date of filing of such documents. We may incorporate by reference any Form 6-K subsequently submitted to the SEC by identifying in such Form 6-K that it is being incorporated by reference into this prospectus.

Documents incorporated by reference in this prospectus are available from us without charge upon written or oral request, excluding any exhibits to those documents that are not specifically incorporated by reference into those documents. You can obtain documents incorporated by reference in this document by requesting them from us in writing at Technologiepark, Im Neuenheimer Feld 582, 69120, Heidelberg, Germany or via telephone at (+49) 6221-65307-0.

ENFORCEMENT OF CIVIL LIABILITIES

We are incorporated under the laws of the Netherlands and our headquarters are located in Germany. Substantially all of our assets are located outside the United States. The majority of our managing directors and supervisory directors reside outside the United States. As a result, it may not be possible for investors to effect service of process within the United States upon such persons or to enforce against them or us in U.S. courts, including judgments predicated upon the civil liability provisions of the federal securities laws of the United States.

The United States and the Netherlands currently do not have a treaty providing for the reciprocal recognition and enforcement of judgments, other than arbitration awards, in civil and commercial matters. Consequently, a final judgment for payment given by a court in the United States, whether or not predicated solely upon U.S. securities laws, would not automatically be recognized or enforceable in the Netherlands. In order to obtain a judgment which is enforceable in the Netherlands, the party in whose favor a final and conclusive judgment of the U.S. court has been rendered will be required to file its claim with a court of competent jurisdiction in the Netherlands. Such party may submit to the Dutch court the final judgment rendered by the U.S. court. If and to the extent that the Dutch court finds that the jurisdiction of the U.S. court has been based on grounds which are internationally acceptable, that the proceedings before the U.S. court complied with principles of proper procedure, that recognition of such judgment would not contravene the public policy of the Netherlands, and that recognition and/or enforcement of the judgment is not irreconcilable with a decision of a Dutch court rendered between the same parties or with an earlier decision of a foreign court rendered between the same parties in a dispute that is about the same subject matter and that is based on the same cause, provided that earlier decision can be recognized in the Netherlands, the court of the Netherlands will, in principle, give binding effect to the judgment of the U.S. court. Dutch courts may deny the

recognition and enforcement of punitive damages or other awards on the basis that recognition and enforcement would contravene public policy of the Netherlands. Moreover, a Dutch court may reduce the amount of damages granted by a U.S. court and recognize damages only to the extent that they are necessary to compensate actual losses or damages. In addition, there is doubt as to whether a Dutch court would impose civil liability on us, our managing directors or supervisory directors or certain experts named herein in an original action predicated solely upon the U.S. federal securities laws brought in a court of competent jurisdiction in the Netherlands against us or such directors or experts, respectively. Enforcement and recognition of judgments of U.S. courts in the Netherlands are solely governed by the provisions of the Dutch Civil Procedure Code.

Dutch civil procedure differs substantially from U.S. civil procedure in a number of respects. Insofar as the production of evidence is concerned, U.S. law and the laws of several other jurisdictions based on common law provide for pre-trial discovery, a process by which parties to the proceedings may prior to trial compel the production of documents by adverse or third parties and the deposition of witnesses. Evidence obtained in this manner may be decisive in the outcome of any proceeding. No such pre-trial discovery process exists under Dutch law.

The United States and Germany currently do not have a treaty providing for the reciprocal recognition and enforcement of judgments, other than arbitration awards, in civil and commercial matters. Consequently, a final judgment for payment given by a court in the United States, whether or not predicated solely upon U.S. securities laws, would not automatically be recognized or enforceable in Germany. German courts may deny the recognition and enforcement of a judgment rendered by a U.S. court if they consider the U.S. court not to be competent or the decision not in line with German public policy principles. For example, recognition of court decisions based on class actions brought in the United States typically raises public policy concerns and judgments awarding punitive damages are generally not enforceable in Germany.

In addition, actions brought in a German court against us, our managing directors or supervisory directors, our senior management and the experts named herein to enforce liabilities based on U.S. federal securities laws may be subject to certain restrictions. In particular, German courts generally do not award punitive damages. Litigation in Germany is also subject to rules of procedure that differ from the U.S. rules, including with respect to the taking and admissibility of evidence, the conduct of the proceedings and the allocation of costs. Proceedings in Germany would have to be conducted in the German language and all documents submitted to the court would, in principle, have to be translated into German. For these reasons, it may be difficult for a U.S. investor to bring an original action in a German court predicated upon the civil liability provisions of the U.S. federal securities laws against us, our managing directors or supervisory directors, our senior management and the experts named in this prospectus.

EXPENSES

The following table sets forth the expenses (other than underwriting discounts and commissions or agency fees and other items constituting underwriters' or agents' compensation, if any) expected to be incurred by us in connection with a possible offering of securities registered under this registration statement.

	<u></u>	To Be Paid
SEC registration fee	\$	21,282
FINRA filing fee	\$	32,201
Transfer agent's fees		*
Printing and engraving expenses		*
Legal fees and expenses		*
Accounting fees and expenses		*
Miscellaneous		*
Total	\$	*

^{*} To be provided by a prospectus supplement or a Report on Form 6–K that is incorporated by reference into this prospectus.

LEGAL MATTERS

The validity of the common shares and certain other matters of Dutch law will be passed upon for us by De Brauw Blackstone Westbroek N.V. Certain matters of U.S. federal and New York State law will be passed upon for us by Davis Polk & Wardwell LLP, New York, New York.

EXPERTS

The consolidated financial statements of Affimed N.V. as of December 31, 2014 and 2013 and for each of the years in the three-year period ended December 31, 2014 have been incorporated by reference herein in reliance upon the report of KPMG AG Wirtschaftsprüfungsgesellschaft, Leipzig, Germany, independent registered public accounting firm, appearing elsewhere herein, and upon the authority of said firm as experts in accounting and auditing.

Affimed N.V.

Common Shares

Debt Securities

Warrants

Purchase Contracts

Units

PROSPECTUS

The information in this prospectus supplement is not complete and may be changed. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This prospectus supplement is not an offer to sell these securities, and we are not soliciting an offer to buy these securities in any state where the offer or sale is not permitted.

Subject to completion, dated October 1, 2015

Prospectus Supplement

\$50,000,000



Common Shares

We have entered into a Sales Agreement, or sales agreement, with Cowen and Company, LLC, or Cowen, dated October 1, 2015, relating to the sale of our common shares offered by this prospectus supplement. In accordance with the terms of the sales agreement, under this prospectus supplement we may offer and sell our common shares, nominal value €0.01 per share, having an aggregate offering price of up to \$50,000,000 from time to time through Cowen, acting as our agent.

Sales of our common shares, if any, under this prospectus supplement will be made by any method permitted that is deemed an "at the market offering" as defined in Rule 415 under the Securities Act of 1933, as amended, or the Securities Act, including sales made directly on or through The Nasdaq Global Market, the existing trading market for our common shares, sales made to or through a market maker other than on an exchange or otherwise, in negotiated transactions at market prices, and/or any other method permitted by law. Cowen is not required to sell any specific amount, but will act as our sales agent using commercially reasonable efforts consistent with its normal trading and sales practices. There is no arrangement for funds to be received in any escrow, trust or similar arrangement.

Cowen will be entitled to compensation at a commission rate of up to 3% of the gross sales price per share sold under the sales agreement. See "Plan of Distribution" beginning on page S-50 for additional information regarding the compensation to be paid to Cowen.

In connection with the sale of the common shares on our behalf, Cowen may be deemed to be an "underwriter" within the meaning of the Securities Act and the compensation of Cowen may be deemed to be underwriting commissions or discounts. We have also agreed to provide indemnification and contribution to Cowen with respect to certain liabilities, including liabilities under the Securities Act.

Our common shares trade on The Nasdaq Global Market under the trading symbol "AFMD". On September 29, 2015, the last sale price of our common shares as reported on The Nasdaq Global Market was \$6.04 per share.

Investing in our common shares involves risks. See "Risk Factors" beginning on page S-8 of this prospectus supplement.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or passed upon the adequacy or accuracy of this prospectus supplement. Any representation to the contrary is a criminal offense.

Cowen and Company

, 2015

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ABOUT THIS PROSPECTUS SUPPLEMENT

This document consists of two parts. The first part is this prospectus supplement, which describes the specific terms of this offering. The second part is the accompanying prospectus, which is part of a registration statement that we filed with the SEC using a "shelf" registration process. The accompanying prospectus describes more general information, some of which may not apply to this offering. Under this shelf registration process, we may from time to time sell our common shares having an aggregate offering price of up to \$50,000,000 under this prospectus supplement at prices and on terms to be determined by market conditions at the time of the offering.

Before buying any of the common shares that we are offering, we urge you to carefully read both this prospectus supplement and the accompanying prospectus together with all of the information incorporated by reference herein, as well as the additional information described under the headings "Where You Can Find More Information" and "Incorporation by Reference." These documents contain important information that you should consider when making your investment decision.

To the extent there is a conflict between the information contained in this prospectus supplement, on the one hand, and the information contained in the accompanying prospectus or in any document incorporated by reference in this prospectus supplement, on the other hand, you should rely on the information in this prospectus supplement, provided that if any statement in one of these documents is inconsistent with a statement in another document having a later date—for example, a document incorporated by reference in this prospectus supplement—the statement in the document having the later date modifies or supersedes the earlier statement.

You should rely only on the information contained in or incorporated by reference in this prospectus and any related free writing prospectus filed by us with the SEC. We have not, and Cowen has not, authorized anyone to provide you with different information. If anyone provides you with different or inconsistent information, you should not rely on it. This prospectus supplement does not constitute an offer to sell or the solicitation of an offer to buy any securities other than the securities described in this prospectus supplement or an offer to sell or the solicitation of an offer to buy such securities in any circumstances in which such offer or solicitation is unlawful. You should assume that the information appearing in this prospectus supplement, the documents incorporated by reference and any related free writing prospectus is accurate only as of their respective dates. Our business, financial condition, results of operations and prospects may have changed materially since those dates.

You should also read and consider the information in the documents to which we have referred you in the sections entitled "Where You Can Find More Information" and "Incorporation by Reference" in this prospectus supplement.

Unless otherwise indicated or the context otherwise requires, all references in this prospectus supplement to "Affimed Therapeutics AG," "Affimed Therapeutics B.V.," "Affimed N.V.," the "Company," "we," "our," "ours," "us" or similar terms refer to Affimed N.V. (Affimed Therapeutics AG and its subsidiary prior to the completion of the corporate reorganization).

SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus supplement and the financial statements and other documents incorporated by reference in this prospectus supplement contain forward-looking statements, including statements concerning our industry, our operations, our anticipated financial performance and financial condition, and our business plans and growth strategy and product development efforts. These statements constitute forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, or the Securities Act, and Section 21E of the Exchange Act. Many of the forward-looking statements contained in this prospectus supplement can be identified by the use of forward-looking words such as "anticipate," "believe," "could," "expect," "should," "plan," "intend," "estimate" and "potential," among others. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of their dates. These forward-looking statements are based on estimates and assumptions by our management that, although we believe to be reasonable, are inherently uncertain and subject to a number of risks and uncertainties.

The following represent some, but not necessarily all, of the factors that could cause actual results to differ from historical results or those anticipated or predicted by our forward-looking statements:

- our operation as a development stage company with limited operating history and a history of operating losses; as of June 30, 2015, our accumulated deficit was €106.7 million;
- the chance our clinical trials may not be successful and clinical results may not reflect results seen in previously conducted preclinical studies and clinical trials;
- · our reliance on contract manufacturers and contract research organizations over which we have limited control;
- · our lack of adequate funding to complete development of our product candidates and the risk we may be unable to access additional capital on reasonable terms or at all to complete development and begin commercialization of our product candidates;
- · our dependence on the success of AFM13 and AFM11, which are still in clinical development and may eventually prove to be unsuccessful;
- · uncertainty surrounding whether any of our product candidates will receive regulatory approval, which is necessary before they can be commercialized:
- the chance that we may become exposed to costly and damaging liability claims resulting from the testing of our product candidates in the clinic or in the commercial stage;
- · if our product candidates obtain regulatory approval, our being subject to expensive ongoing obligations and continued regulatory overview;
- · enacted and future legislation may increase the difficulty and cost for us to obtain marketing approval and commercialization;
- · the chance that our products may not gain market acceptance, in which case we may not be able to generate product revenues;
- · our reliance on our current strategic relationships with the DKFZ, Xoma, LLS, Amphivena and Amphivena's other investors and partners, including MPM Capital, Aeris Capital and Janssen, and the potential failure to enter into new strategic relationships;
- · our reliance on third parties to conduct our nonclinical and clinical trials and on third-party single-source suppliers to supply or produce our product candidates:
- · our future growth and ability to compete, which depends on our retaining key personnel and recruiting additional qualified personnel; and
- · other risk factors discussed under "Risk Factors."

Our actual results or performance could differ materially from those expressed in, or implied by, any forward-looking statements relating to those matters. Accordingly, no assurances can be given that any of the events anticipated by the forward-looking statements will transpire or occur, or if any of them do so, what impact they will have on our results of operations, cash flows or financial condition. Except as required by law, we are under no obligation, and expressly disclaim any obligation, to update, alter or otherwise revise any forward-looking statement, whether written or oral, that may be made from time to time, whether as a result of new information, future events or otherwise.

PROSPECTUS SUPPLEMENT SUMMARY

This summary highlights selected information contained elsewhere in this prospectus and in the documents we incorporate by reference. This summary does not contain all of the information you should consider before making an investment decision. You should read this entire prospectus supplement carefully, especially the risks of investing in our common shares discussed under "Risk Factors" beginning on page S-8 of this prospectus supplement, along with our consolidated financial statements and notes to those consolidated financial statements and the other information incorporated by reference in this prospectus supplement.

Affimed N.V.

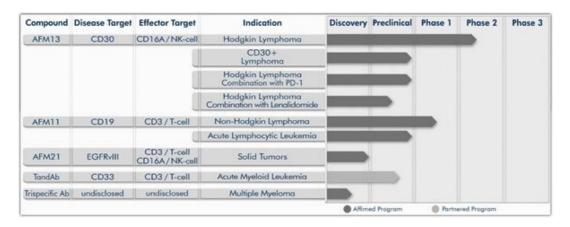
Our Business

We are a clinical-stage biopharmaceutical company focused on discovering and developing highly targeted cancer immunotherapies. Our product candidates are being developed in the field of immune-oncology, which represents an innovative approach to cancer treatment that seeks to harness the body's own immune defense to fight tumor cells. The most potent cells of the human defense arsenal are types of white blood cells called Natural Killer cells, or NK-cells, and T-cells. Our proprietary, next-generation bispecific antibodies, which we call TandAbs because of their tandem antibody structure, are designed to direct and establish a bridge between either NK-cells or T-cells and cancer cells. Our TandAbs have the ability to bring NK-cells or T-cells into proximity and trigger a signal cascade that leads to the destruction of cancer cells. Due to their novel tetravalent architecture (which provides for four binding domains), our TandAbs bind to their targets with high affinity and have half-lives that allow regular intravenous administration. We believe, based on their mechanism of action and the preclinical and clinical data we have generated to date, that our product candidates, alone or in combination, may ultimately improve response rates, clinical outcomes and survival in cancer patients could eventually become a cornerstone of modern targeted oncology care.

We have focused our research and development efforts on three proprietary programs for which we retain global commercial rights. Because our TandAbs bind with receptors that are known to be present on a number of types of cancer cells, each of our TandAb product candidates could be developed for the treatment of several different cancers. We intend to initially develop our two clinical stage product candidates in orphan or high-medical need indications, including as a salvage therapy for patients who have relapsed after, or are refractory to, that is who do not respond to treatment with, standard therapies, which we refer to as relapsed/refractory. These patients have a limited life expectancy and few therapeutic options. We believe this strategy will allow for a faster path to approval and will likely require smaller clinical trials compared to indications with more therapeutic options and larger patient populations. We believe such specialized market segments in oncology can be effectively targeted with a small and dedicated marketing and sales team. We currently intend to establish a commercial sales force in the United States and/or Europe to commercialize our product candidates when and if they are approved. We are also conducting research with our collaborator Amphivena Therapeutics, Inc., which Janssen Biotech, Inc., one of the Janssen Pharmaceutical Companies of Johnson & Johnson, or Janssen, has an option to buy upon IND acceptance by the FDA.

We also see an opportunity in the clinical development of our TandAbs in combination with other agents that harness the immune system to fight cancer cells, such as checkpoint-inhibitors, or CPIs. Such combinations of cancer immunotherapies may ultimately prove beneficial for larger patient populations in earlier stages of diseases, beyond the relapsed/refractory disease setting.

The chart below summarizes our current product candidate pipeline:



Our lead candidate, AFM13, is a first-in-class NK-cell TandAb designed for the treatment of certain CD30-positive (CD30+) B- and T-cell malignancies, including Hodgkin Lymphoma, or HL. AFM13 selectively binds with CD30, a clinically validated target in HL patients, and CD16A, an integral membrane glycoprotein receptor expressed on the surface of NK-cells, triggering a signal cascade that leads to the destruction of tumor cells that carry CD30. We are initially developing AFM13 for HL in the salvage setting for patients who have relapsed after, or are refractory to, Adcetris (brentuximab vedotin), a CD30-targeted chemotherapy approved by the U.S. Food and Drug Administration, or FDA, in August 2011 as a salvage therapy for HL. Half of the patients treated with Adcetris experience disease progression in less than half a year after initiation of therapy.

In a recent phase 1 dose-escalation clinical trial, AFM13 was well-tolerated and demonstrated tumor shrinkage or slowing of tumor growth, with disease control shown in 16 of 26 patients eligible for efficacy evaluation. AFM13 also stopped tumor growth in patients who are refractory to Adcetris. Six out of seven patients who became refractory to Adcetris as the immediate prior therapy experienced stabilization of disease under AFM13 treatment according Cheson's criteria, standard criteria for assessing treatment response in lymphoma. We believe that based on its novel mode of action, AFM13 may be beneficial to patients who have relapsed or are refractory to treatment with Adcetris and may provide more durable clinical benefit.

In the second quarter of 2015, a phase 2a proof of concept trial of AFM13 was initiated by the German Hodgkin Study Group (GHSG) in HL patients that have received all standard therapies and have relapsed after or are refractory to Adcetris. We expect interim data in the first half of 2016 and final data by the end of 2016. The Leukemia and Lymphoma Society, or LLS, has agreed to co-fund this phase 2a HL study, a further indication of the promise this development candidate holds. We also plan to support an academic phase 1b/2a clinical trial of AFM13 in patients with CD30+ lymphoma, which is expected to commence by the end of 2015. This trial will be conducted by Columbia University in New York.

In order to prepare for further clinical development, we were and are currently performing preclinical studies investigating the combination of AFM13 with CPIs and checkpoint agonists, or CPAs (collaboration with Stanford University and lenalidomide (collaboration with Mayo Clinic)). We believe that AFM13 and immunomodulators administered together could lead to greater tumor cell killing because these molecules may have a synergistic anti-tumor effect involving both NK-cells and T-cells. In preclinical animal studies of HL using both patient derived xenograft (PDX) and immune cells from blood (PBMCs), the established tumor was treated with AFM13 and CPIs/CPAs (anti-PD-1, anti-CD137 and anti-CTLA4) both alone and in combination. While the single agent treatment showed a significant reduction in tumor growth for most molecules when compared to the control treatment group (irrelevant IgG), all combinations of AFM13 and CPI/CPA showed enhanced anti-tumor efficacy. We also analyzed the change in intra-tumoral lymphocyte population compared to IgG treatment. It was observed that in all AFM13-treated animals (as a single agent and in all combinations), the NK-cell population in the tumor increased. In addition, while there was no increase of T-cells in animals treated with only AFM13 or CPIs/CPAs, there was an increase of cytotoxic T-cells detected in animals treated with AFM13 in combination with a CPI/CPA. These results provide the rationale for the investigation of combinations with AFM13 in the clinical setting, initially

focusing on PD-1. Final data on the combination with CPIs/CPAs were presented at the American Society of Clinical Oncology (ASCO) annual meeting in 2015. Based on the preclinical data, we are planning to initiate a clinical phase 1b study investigating the combination of AFM13 with an anti PD-1 antibody in relapsed/refractory HL in the first half of 2016.

Our second clinical stage candidate, AFM11, is a T-cell TandAb designed for the treatment of certain CD19+ B-cell malignancies, including non-Hodgkin Lymphoma, or NHL, Acute Lymphocytic Leukemia, or ALL, and Chronic Lymphocytic Leukemia, or CLL. AFM11 binds selectively with CD19, a clinically validated target in B-cell malignancies. It also binds to CD3, a component of the T-cell receptor complex, triggering a signal cascade that leads to the destruction of tumor cells that carry CD19. Based on its molecular characteristics, in particular its molecular weight, we expect AFM11 will have a longer half-life than blinatumomab, a bispecific antibody also targeted against CD19 and CD3 developed by Amgen and recently approved in the United States. This should allow administration through intravenous infusion over four hours, rather than continuous infusion, which requires hospitalization or a portable pump over one or more cycles of four-weeks each with frequent reconstitution and refill of medication, as is necessary for blinatumomab. In preclinical studies, AFM11 compared to the blinatumomab reference compound also showed a 100-fold higher affinity to the CD3 receptor, resulting in up to 40-fold greater cytotoxic potency at low T-cell counts. We have begun a phase 1 dose ranging study of AFM11 designed to evaluate safety and tolerability and to potentially assess anti-tumor activity after four weeks of therapy in NHL patients. We expect to report top line data from this phase 1 trial in the second half of 2016. In addition, we are planning to investigate AFM11 in ALL patients and are preparing a phase 1 dose ranging study that is expected to begin recruitment in the first half of 2016.

Our third TandAb program, AFM21, is in preclinical development. AFM21 selectively binds Epidermal Growth Factor Receptor variant III, or EGFRVIII, a receptor that appears to be highly specific for solid tumors and is prominent in a significant portion of patients with glioblastoma, hormone refractory prostate cancer and head and neck cancer. Through access to our proprietary antibody libraries, we isolated an antibody that binds to EGFRvIII but not to wild-type EGFR, which is also expressed on many healthy tissues. In preclinical studies, AFM21 has demonstrated an ability to selectively kill EGFRvIII-carrying cells and not wild-type EGFR. We originally developed AFM21 as a T-cell engager, but we have also initiated an EGFRvIII/CD16A NK-cell TandAb. We will compare the preclinical efficacy of both TandAb molecules and thereafter decide which one to advance into IND-enabling studies.

Our TandAb antibodies are designed to have the following properties:

- · bispecific (specific binding to two target receptors) or trispecific (specific binding to three target receptors) targeting;
- · binding with high specificity, or selectivity;
- · binding with high affinity, or strength;
- · molecular weight allowing for intravenous administration over one to four hours; and
- · stable structure conducive to efficient and cost-effective manufacturing.

In 2009 we formed AbCheck, our 100% owned, independently run antibody screening platform company. AbCheck is devoted to the generation and optimization of fully human antibodies. Its technologies include a combined phage and yeast display antibody library and a proprietary algorithm to optimize affinity, stability and manufacturing efficiency. In addition to providing candidates for Affimed projects, AbCheck is recognized for its expertise in antibody discovery throughout the United States and Europe and has been working with globally active pharmaceutical companies such as Eli Lilly, Daiichi Sankyo, Pierre Fabre and others.

In 2013, we entered into a license and development agreement, which amended and restated a 2012 license agreement, with Amphivena Therapeutics, Inc., or Amphivena, based in San Francisco, CA, to develop a bi-specific CD33/CD3 TandAb for acute myeloid leukemia in exchange for an interest in Amphivena and certain milestone

payments. Amphivena received funding from MPM Capital, Aeris Capital and us. Amphivena has also entered into an agreement with Janssen Biotech, Inc., one of the Janssen Pharmaceutical Companies of Johnson & Johnson, or Janssen, that gives Janssen the option to acquire Amphivena upon predetermined terms following acceptance by the FDA of an IND filing for the product candidate. Affimed has successfully reached its first three milestones, up to the generation and acceptance of a development candidate TandAb meeting certain target features. The third milestone was reached in the first quarter of 2015.

Our Strengths

We believe we are a leader in developing cancer immunotherapies due to several factors:

- · Our lead product candidate, AFM13, is a first-in-class NK-cell mediated cancer immunotherapy.
- · We have a growing pipeline of product candidates focused on key cancer indications.
- · We retain global commercial rights for our three candidates in our product pipeline.
- Our experienced management team has a strong track record in the development and commercialization of new medicines.
- We have a strong technology base and solid patent portfolio in the field of targeted immuno-oncology.

Strategy

Our goal is to develop and commercialize targeted cancer immunotherapies aimed at improving and extending patients' lives. Key elements of our strategy to achieve this goal are to:

- · Rapidly advance the development of our clinical stage product candidates, including combinations with other immunotherapies.
- · Establish R&D and commercialization capabilities in the United States.
- · Use our technology platforms and intellectual property portfolio to continue to build our cancer immunotherapy pipeline.
- · Maximize the value of our collaboration arrangements with LLS and Janssen.
- · Intensify our collaboration with academia.
- · Utilize AbCheck to generate and optimize antibodies.

Affimed was founded in 2000 based on technology developed by the group led by Professor Melvyn Little at Deutsches Krebsforschungszentrum, the German Cancer Research Center, or DKFZ, in Heidelberg. Our offices and laboratories are located at the Technology Park adjacent to the DKFZ in Heidelberg, where we employ 40 personnel, 28 of whom have an advanced academic degree. Including AbCheck and Affimed Inc. personnel, our total headcount is 63 (57 full time equivalents). We are led by experienced executives with a track record of successful product development, approvals and launches, specifically of biologics. Our supervisory board includes highly experienced experts from the pharmaceutical and biotech industries, with a specific background in hematology. Affimed has attracted investments from top-tier venture capital firms, including Aeris Capital, BioMedInvest, Life Sciences Partners, the venture capital arm of Novo Nordisk A/S and OrbiMed.

Recent Developments

On May 12, 2015, we announced the closing of our previously announced public offering of 5,750,000 of our common shares at a public offering price of \$7.15 per common share. The total amount includes 750,000 common shares issued pursuant to the underwriters' option to purchase additional shares which was exercised on May 7,

2015. After deducting the underwriting discounts and other offering expenses, the net proceeds of the public offering were €33.5 million (\$37.5 million).

The phase 2a clinical trial of AFM13 in HL was initiated and first patients were recruited. We expect that interim data will be available in the first half of 2016. Final data are expected by the end of 2016.

For AFM11, an amendment of the study was implemented in September 2015 with the intention to investigate additional dose regimens. We expect to report top line data from this phase 1 trial in the second half of 2016.

Risks Associated with Our Business

Our business is subject to a number of risks of which you should be aware before making an investment decision. These risks are discussed more fully in the "Risk Factors" section of this prospectus supplement immediately following this prospectus supplement summary. These risks include the following:

- · We are currently a development stage company with limited operating history and a history of operating losses. We anticipate that we will continue to incur losses for the foreseeable future. As of June 30, 2015, our accumulated deficit was €106.7 million. We will need additional funding, and such funding may not be available or could cause substantial dilution to our shareholders.
- · Our clinical trials may not be successful, and clinical results may not reflect results seen in previously conducted preclinical studies and clinical trials.
- We rely on contract manufacturers and contract research organizations over which we have limited control.
- · We do not have adequate funding to complete development of our product candidates and may be unable to access additional capital on reasonable terms or at all to complete development and begin commercialization of our product candidates.
- We depend on the success of AFM13 and AFM11, which are still in clinical development and may eventually prove to be unsuccessful.
- · There is uncertainty surrounding whether any of our product candidates will receive regulatory approval, which is necessary before they can be commercialized.
- · We use new technologies in the development of our product candidates, and the FDA and other regulatory authorities have not approved products that utilize these technologies; the approval of our product candidates is less certain than approval of drugs that do not employ such novel technologies or methods of action.
- We may become exposed to costly and damaging liability claims resulting from the testing of our product candidates in the clinic or in the commercial stage.
- \cdot We may encounter regulatory changes that delay or impede our development and commercialization efforts.
- · We may not be able to obtain adequate protection for the intellectual property covering our product candidates or develop and commercialize our product candidates without infringing on the intellectual property rights of third parties.
- Our products may not gain market acceptance, in which case we may not be able to generate product revenues.
- · If we fail to maintain our current strategic relationships with the DKFZ; Xoma Ireland Ltd., or Xoma; LLS; or Amphivena or Amphivena's other investors and partners, including MPM Capital, Aeris Capital and

Janssen, our business, commercialization prospects and financial condition may be materially adversely affected.

· Our future growth and ability to compete depends on retaining our key personnel and recruiting additional qualified personnel.

Corporate Information

Our principal executive offices are located at Technologiepark, Im Neuenheimer Feld 582, 69120 Heidelberg, Germany. Our telephone number is (+49) 6221-65307-0. Investors should contact us for any inquiries through the address and telephone number of our principal executive office. Our principal website is www.affimed.com. The information contained on our website is not a part of this prospectus supplement.

Implications of Being an "Emerging Growth Company"

We qualify as an "emerging growth company" as defined in the Jumpstart our Business Startups Act of 2012, or the JOBS Act. An emerging growth company may take advantage of specified reduced reporting and other burdens that are otherwise applicable generally to public companies. These provisions include an exemption from the auditor attestation requirement in the assessment of our internal control over financial reporting pursuant to the Sarbanes-Oxley Act of 2002.

We may take advantage of these provisions for a period of five years following the completion of our initial public offering (2019) or such earlier time that we are no longer an emerging growth company. We would cease to be an emerging growth company if we have more than \$1.0 billion in annual revenue, have more than \$700 million in market value of our common shares held by non-affiliates or issue more than \$1.0 billion of non-convertible debt over a three-year period. We may choose to take advantage of some but not all of these reduced burdens.

THE OFFERING **Common Shares Offered by Us** Common shares having an aggregate offering price of up to \$50,000,000. **Manner of Offering** "At the market" offering that may be made from time to time through our sales agent, Cowen and Company, LLC. See "Plan of Distribution." **Use of Proceeds** We intend to use the net proceeds from this offering, together with our other cash resources, primarily to fund research and development expenses for our clinical and preclinical research and development activities and for working capital, repayment of debt and general corporate purposes. See "Use of Proceeds." **Risk Factors** You should read the "Risk Factors" section of this prospectus supplement for a discussion of factors to consider carefully before deciding to purchase our common shares. **Nasdaq Global Market Symbol AFMD**

RISK FACTORS

You should carefully consider the risks and uncertainties described below and the other information in this prospectus supplement before making an investment in our common shares. Our business, financial condition or results of operations could be materially and adversely affected if any of these risks occurs, and as a result, the market price of our common shares could decline and you could lose all or part of your investment. This prospectus supplement also contains forward-looking statements that involve risks and uncertainties. See "Cautionary Statement Regarding Forward-Looking Statements." Our actual results could differ materially and adversely from those anticipated in these forward-looking statements as a result of certain factors.

Risks Related to Our Business and the Development and Commercialization of Our Product Candidates.

All of our product candidates are in preclinical or clinical development. Drug development is expensive, time consuming and uncertain, and we may ultimately not be able to obtain regulatory approvals for the commercialization of some or all of our product candidates.

The research, testing, manufacturing, labeling, approval, selling, marketing and distribution of drug products are subject to extensive regulation by the U.S. Food and Drug Administration, or FDA, the European Medicines Agency, or EMA, national competent authorities in Europe, including the Paul-Ehrlich-Institut, or PEI, and other non-U.S. regulatory authorities, which establish regulations that differ from country to country. We are not permitted to market our product candidates in the United States or in other countries until we receive approval of a Biologics License Application, or BLA, from the FDA or marketing approval from applicable regulatory authorities outside the United States. Our product candidates are in various stages of development and are subject to the risks of failure inherent in drug development. We have not submitted an application for or received marketing approval for any of our product candidates. We have limited experience in conducting and managing the clinical trials necessary to obtain regulatory approvals, including approval by the FDA or the European Commission. Obtaining approval of a BLA or a Marketing Authorization Application can be a lengthy, expensive and uncertain process. In addition, failure to comply with FDA, EMA and other non-U.S. regulatory requirements may, either before or after product approval, if any, subject our company to administrative or judicially imposed sanctions, including:

- · restrictions on our ability to conduct clinical trials, including full or partial clinical holds, or other regulatory objections to, ongoing or planned trials;
- · restrictions on the products, manufacturers or manufacturing process;
- warning letters;
- · civil and criminal penalties;
- · injunctions;
- suspension or withdrawal of regulatory approvals;
- product seizures, detentions or import bans;
- · voluntary or mandatory product recalls and publicity requirements;
- · total or partial suspension of production;
- \cdot $\;$ imposition of restrictions on operations, including costly new manufacturing requirements; and
- · refusal to approve pending BLAs or supplements to approved BLAs in the United States and refusal to approve marketing research approvals in other jurisdictions.

The FDA, the EMA and other non-U.S. regulatory authorities also have substantial discretion in the drug approval process. The number of preclinical studies and clinical trials that will be required for regulatory approval varies depending on the product candidate, the disease or condition that the product candidate is designed to address,

and the regulations applicable to any particular drug candidate. Regulatory agencies can delay, limit or deny approval of a product candidate for many reasons, including:

- · a product candidate may not be deemed safe or effective;
- · the results may not confirm the positive results from earlier preclinical studies or clinical trials;
- · regulatory agencies may not find the data from preclinical studies and clinical trials sufficient or well-controlled;
- · regulatory agencies might not approve or might require changes to our manufacturing processes or facilities; or
- · regulatory agencies may change their approval policies or adopt new regulations.

Any delay in obtaining or failure to obtain required approvals could materially adversely affect our ability to generate revenue from the particular product candidate, which likely would result in significant harm to our financial position and adversely impact our share price. Furthermore, any regulatory approval to market a product may be subject to limitations on the indicated uses for which we may market the product. These limitations may limit the size of the market for the product.

We have no history of conducting large-scale or pivotal clinical trials or commercializing pharmaceutical products, which may make it difficult to evaluate the prospects for our future viability.

Our operations to date have been limited to financing and staffing our company, developing our technology and developing AFM13, AFM11 and our other product candidates. We have not yet demonstrated an ability successfully to complete a large-scale or pivotal clinical trial, obtain marketing approval, manufacture a commercial scale product or conduct sales and marketing activities necessary for successful product commercialization. Consequently, predictions about our future success or viability may not be as accurate as they could be if we had a history of successfully developing and commercializing pharmaceutical products.

If clinical trials for our product candidates are prolonged, delayed or stopped, we may be unable to obtain regulatory approval and commercialize our product candidates on a timely basis, which would require us to incur additional costs and delay our receipt of any product revenue.

A phase 2a clinical trial of AFM13 in patients with Hodgkin Lymphoma, or HL, started recruitment in the second quarter of 2015. We anticipate receiving final data for this trial in the second half of 2016. In addition we are planning to initiate an additional phase 1b/2a clinical trial of AFM13 in patients with CD30+ lymphoma at the end of 2015 and a phase 1b trial investigating the combination of AFM13 with a PD-1 checkpoint inhibitor in the first half of 2016. We have initiated a phase 1 clinical trial of AFM11 in patients with non-Hodgkin Lymphoma, or NHL, and expect to report top line data by the end of 2016. A phase 1 clinical trial of AFM11 in patients with acute lymphocytic leukemia, or ALL, is planned to be started in the first half of 2016. The commencement of these planned clinical trials could be substantially delayed or prevented by several factors, including:

- · further discussions with the FDA, the EMA, the PEI or other regulatory agencies regarding the scope or design of our clinical trials;
- the limited number of, and competition for, suitable sites to conduct our clinical trials, many of which may already be engaged in other clinical trial programs, including some that may be for the same indication as our product candidates;
- · any delay or failure to obtain regulatory approval or agreement to commence a clinical trial in any of the countries where enrollment is planned;
- · inability to obtain sufficient funds required for a clinical trial;
- \cdot clinical holds on, or other regulatory objections to, a new or ongoing clinical trial;

- · delay or failure in the testing, validation, manufacture and delivery of sufficient supplies of the product candidate for our clinical trials;
- delay or failure to reach agreement on acceptable clinical trial agreement terms or clinical trial protocols with prospective sites or clinical research organizations, or CROs, the terms of which can be subject to extensive negotiation and may vary significantly among different sites or CROs; and
- · delay or failure to obtain institutional review board, or IRB, or ethics committee approval to conduct a clinical trial at a prospective site.

The completion of our clinical trials could also be substantially delayed or prevented by several factors, including:

- · slower than expected rates of patient recruitment and enrollment;
- · failure of patients to complete the clinical trial or return for post-treatment follow-up;
- · unforeseen safety issues, including severe or unexpected drug-related adverse effects experienced by patients, including possible deaths;
- · lack of efficacy during clinical trials;
- \cdot termination of our clinical trials by one or more clinical trial sites;
- · inability or unwillingness of patients or clinical investigators to follow our clinical trial protocols;
- · inability to monitor patients adequately during or after treatment by us and/or our CROs; and
- · the need to repeat or terminate clinical trials as a result of inconclusive or negative results or unforeseen complications in testing.

Changes in regulatory requirements and guidance as well as changes in the competitive environment may also occur and we may need to significantly amend clinical trial protocols or submit new clinical trial protocols to reflect these changes with appropriate regulatory authorities. Amendments may require us to renegotiate terms with CROs or resubmit clinical trial protocols to IRBs or ethics committees for re-examination, which may impact the costs, timing or successful completion of a clinical trial. Our clinical trials may be suspended or terminated at any time by the FDA, the PEI, other regulatory authorities, the IRB or ethics committee overseeing the clinical trial at issue, any of our clinical trial sites with respect to that site, or us, due to a number of factors, including:

- · failure to conduct the clinical trial in accordance with regulatory requirements or our clinical protocols;
- · unforeseen safety issues or any determination that a clinical trial presents unacceptable health risks;
- · lack of adequate funding to continue the clinical trial due to unforeseen costs or other business decisions; and
- · upon a breach or pursuant to the terms of any agreement with, or for any other reason by, current or future collaborators that have responsibility for the clinical development of any of our product candidates.

Any failure or significant delay in completing clinical trials for our product candidates would adversely affect our ability to obtain regulatory approval and our commercial prospects and ability to generate product revenue will be diminished.

The results of previous clinical trials may not be predictive of future results, our progress in trials for one product candidate may not be indicative of progress in trials for other product candidates and the results of our current and planned clinical trials may not satisfy the requirements of the FDA, the EMA or other non-U.S. regulatory authorities.

We currently have no products approved for sale and we cannot guarantee that we will ever have marketable products. Clinical failure can occur at any stage of clinical development. Clinical trials may produce negative or inconclusive results, and we or any of our current and future collaborators may decide, or regulators may require us, to conduct additional clinical or preclinical testing. We will be required to demonstrate with substantial evidence through well-controlled clinical trials that our product candidates are safe and effective for use in a diverse population before we can seek regulatory approvals for their commercial sale. Success in early clinical trials does not mean that future larger registration clinical trials will be successful because product candidates in later-stage clinical trials may fail to demonstrate sufficient safety and efficacy to the satisfaction of the FDA and non-U.S. regulatory authorities despite having progressed through initial clinical trials. Product candidates that have shown promising results in early clinical trials may still suffer significant setbacks in subsequent registration clinical trials. Similarly, the outcome of preclinical testing and early clinical trials may not be predictive of the success of later clinical trials, and interim results of a clinical trial do not necessarily predict final results. Progress in trials of one product candidate does not indicate that we will make similar progress in additional trials for that product candidate or in trials for our other product candidates. A number of companies in the pharmaceutical industry, including those with greater resources and experience than us, have suffered significant setbacks in advanced clinical trials, even after obtaining promising results in earlier clinical trials.

In addition, the design of a clinical trial can determine whether its results will support approval of a product and flaws in the design of a clinical trial may not become apparent until the clinical trial is well advanced. We may be unable to design and execute a clinical trial to support regulatory approval.

In some instances, there can be significant variability in safety and/or efficacy results between different trials of the same product candidate due to numerous factors, including changes in trial protocols, differences in size and type of the patient populations, adherence to the dosing regimen and other trial protocols and the rate of dropout among clinical trial participants. We do not know whether any phase 2, phase 3 or other clinical trials we or any of our collaborators may conduct will demonstrate consistent or adequate efficacy and safety to obtain regulatory approval to market our product candidates.

Further, our product candidates may not be approved even if they achieve their primary endpoints in phase 3 clinical trials or registration trials. The FDA, the EMA or other non-U.S. regulatory authorities may disagree with our trial design and our interpretation of data from preclinical studies and clinical trials. For example, the FDA has communicated to us that it may require us to conduct an additional dose-response trial with respect to AFM13 prior to the entry into pivotal studies, depending on data we have generated with AFM13 at that point in time. In addition, any of these regulatory authorities may change requirements for the approval of a product candidate even after reviewing and providing comments or advice on a protocol for a clinical trial. In addition, any of these regulatory authorities may also approve a product candidate for fewer or more limited indications than we request or may grant approval contingent on the performance of costly post-marketing clinical trials. The FDA, the EMA or other non-U.S. regulatory authorities may not accept the labeling claims that we believe would be necessary or desirable for the successful commercialization of our product candidates.

We use new technologies in the development of our product candidates and the FDA and other regulatory authorities have not approved products that utilize these technologies.

Our product candidates in development are based on new technologies, such as NK-cell TandAbs, T-cell TandAbs and Trispecific Abs. The approval of our product candidates is less certain than approval of drugs that do not employ such novel technologies or methods of action. We intend to work closely with the FDA, the EMA and other regulatory authorities to perform the requisite scientific analyses and evaluation of our methods to obtain regulatory approval for our product candidates. For example, final assays and specifications of our product candidates, in particular regarding cytotoxicity, have yet to be developed, and the FDA, EMA or other regulatory authorities may require additional analyses to evaluate this aspect of our product quality. It is possible that the validation process may take time and resources, require independent third-party analyses or not be accepted by the FDA, the EMA and other regulatory authorities. Delays or failure to obtain regulatory approval of any of the product candidates that we are developing would adversely affect our business.

Even if our product candidates obtain regulatory approval, they will be subject to continual regulatory review.

If marketing authorization is obtained for any of our product candidates, the product will remain subject to continual review and therefore authorization could be subsequently withdrawn or restricted. We will be subject to ongoing obligations and oversight by regulatory authorities, including adverse event reporting requirements, marketing restrictions and, potentially, other post-marketing obligations, all of which may result in significant expense and limit our ability to commercialize such products.

If there are changes in the application of legislation or regulatory policies, or if problems are discovered with a product or our manufacture of a product, or if we or one of our distributors, licensees or co-marketers fails to comply with regulatory requirements, the regulators could take various actions. These include imposing fines on us, imposing restrictions on the product or its manufacture and requiring us to recall or remove the product from the market. The regulators could also suspend or withdraw our marketing authorizations, requiring us to conduct additional clinical trials, change our product labeling or submit additional applications for marketing authorization. If any of these events occurs, our ability to sell such product may be impaired, and we may incur substantial additional expense to comply with regulatory requirements, which could materially adversely affect our business, financial condition and results of operations.

We may not be successful in our efforts to use and expand our technology platforms to build a pipeline of product candidates.

A key element of our strategy is to use and expand our technology platforms to build a pipeline of product candidates and progress these product candidates through clinical development for the treatment of a variety of different types of diseases. Although our research and development efforts to date have resulted in a pipeline of product candidates directed at various cancers, we may not be able to develop product candidates that are safe and effective. Even if we are successful in continuing to build our pipeline, the potential product candidates that we identify may not be suitable for clinical development, including as a result of being shown to have harmful side effects or other characteristics that indicate that they are unlikely to be products that will receive marketing approval and achieve market acceptance. If we do not continue to successfully develop and begin to commercialize product candidates, we will face difficulty in obtaining product revenues in future periods, which could result in significant harm to our financial position and adversely affect our share price.

For our planned combination trial of AFM13 with a PD-1 CPI we must obtain a sufficient supply of the PD-1 CPI. The collaboration with the manufacturer of the respective drug bears certain risks and could substantially increase costs and/or cause delays in the conduct of the trial and potentially affect our ability to obtain regulatory approval.

For our planned combination trial of AFM13 in combination with a PD-1 CPI we must obtain a sufficient supply of the CPI to conduct the trial. We expect to do this through a collaboration with the manufacturer of the respective drug. We may not reach an agreement with the manufacturer, in which case we would not be able to conduct such a trial. If we do reach an agreement with the manufacturer, we may not be able to be the sponsor of the trial or may only have the role of co-sponsor. In both cases we may not have full control over the trial, which could increase the duration and cost of the trial as well as affect our ability to obtain regulatory approval of AFM13 in combination with a CPI.

Even if we obtain marketing approval of any of our product candidates in a major pharmaceutical market such as the United States or Europe, we may never obtain approval or commercialize our products in other major markets, which would limit our ability to realize their full market potential.

In order to market any products in a country or territory, we must establish and comply with numerous and varying regulatory requirements of such countries or territories regarding safety and efficacy. Clinical trials conducted in one country may not be accepted by regulatory authorities in other countries, and regulatory approval in one country does not mean that regulatory approval will be obtained in any other country. Approval procedures vary among countries and can involve additional product testing and validation and additional administrative review periods. Seeking regulatory approvals in all major markets could result in significant delays, difficulties and costs for us and may require additional preclinical studies or clinical trials which would be costly and time consuming. Regulatory requirements can vary widely from country to country and could delay or prevent the introduction of our products in those countries. Satisfying these and other regulatory requirements is costly, time consuming, uncertain

and subject to unanticipated delays. In addition, our failure to obtain regulatory approval in any country may delay or have negative effects on the process for regulatory approval in other countries. We do not have any product candidates approved for sale in any jurisdiction, including international markets, and we do not have experience in obtaining regulatory approval in international markets. If we fail to comply with regulatory requirements in international markets or to obtain and maintain required approvals, our target market will be reduced and our ability to realize the full market potential of our products will be harmed.

In the United States, we may seek fast track or breakthrough designation of AFM13 and/or AFM11 and/or our other product candidates. There is no assurance that the FDA will grant either such designation; and, even if it does grant either such designation to AFM13 or AFM11 or one of our other product candidates, such designation may not actually lead to a faster development or regulatory review or approval process and does not increase the likelihood that our product candidates will receive marketing approval in the United States.

We may seek fast track or breakthrough designation of AFM13 and/or AFM11 and/or our other product candidates. The fast track program, a provision of the FDA Modernization Act of 1997, is designed to facilitate interactions between a sponsoring company and the FDA before and during submission of a BLA for an investigational agent that, alone or in combination with one or more other drugs, is intended to treat a serious or life-threatening disease or condition, and which demonstrates the potential to address an unmet medical need for that disease or condition. Under the fast track program, the FDA may consider reviewing portions of a marketing application before the sponsor submits the complete application if the FDA determines, after a preliminary evaluation of the clinical data, that a fast track product may be effective. A fast track designation provides the opportunity for more frequent interactions with the FDA, and a fast track product could be eligible for priority review if supported by clinical data at the time of submission of the BLA.

The FDA is authorized to designate a product candidate as a breakthrough therapy if it finds that the product is intended, alone or in combination with one or more other drugs, to treat a serious or life-threatening disease or condition and preliminary clinical evidence indicates that the product may demonstrate substantial improvement over existing therapies on one or more clinically significant endpoints, such as substantial treatment effects observed early in clinical development. For products designated as breakthrough therapies, interaction and communication between the FDA and the sponsor of the trial can help to identify the most efficient path for clinical development while minimizing the number of patients placed in ineffective control regimens. Products designated as breakthrough therapies by the FDA are also eligible for accelerated approval.

The FDA has broad discretion whether or not to grant fast track or breakthrough designation. Accordingly, even if we believe one of our product candidates meets the criteria for fast track or breakthrough designation, the FDA may disagree and instead determine not to make such designation. In any event, the receipt of fast-track or breakthrough therapy designation for a product candidate may not result in a faster development process, review or approval compared to product candidates considered for approval under conventional FDA procedures and, in any event, does not assure ultimate approval by the FDA. In addition, even if one or more of our product candidates qualify as fast track or breakthrough therapies, the FDA may later decide that the product candidates no longer meet the conditions for qualification or decide that the time period for FDA review or approval will not be shortened.

We may be unable to obtain orphan product designation or exclusivity for some of our product candidates. If our competitors are able to obtain orphan product exclusivity for their products in the same indications for which we are developing our product candidates, we may not be able to have our products approved by the applicable regulatory authority for a significant period of time. Conversely, if we obtain orphan drug exclusivity for some of our product candidates, we may not be able to benefit from the associated marketing exclusivity.

Regulatory authorities in some jurisdictions, including the United States and Europe, may designate drugs for relatively small patient populations as orphan drugs. Under the Orphan Drug Act, the FDA may designate a product candidate as an orphan drug if it is a drug intended to treat a rare disease or condition, which is generally defined as a patient population of fewer than 200,000 individuals annually in the United States. In the European Union, or the EU, the European Commission may designate a product candidate as an orphan medicinal product if it is a medicine for the diagnosis, prevention or treatment of life-threatening or very serious conditions that affects not more than five in 10,000 persons in the European Union, or it is unlikely that marketing of the medicine would generate sufficient returns to justify the investment needed for its development. We have received orphan drug designation for AFM13 for the treatment of HL in the United States and Europe, but orphan drug status may not ensure that we

have market exclusivity in a particular market and there is no assurance we will be able to receive orphan drug designation for AFM11 or any additional product candidates. Further, the granting of a request for orphan drug designation does not alter the standard regulatory requirements and process for obtaining marketing approval.

Generally, if a product candidate with an orphan drug designation receives the first marketing approval for the indication for which it has such designation, the product is entitled to a period of marketing exclusivity, which, subject to certain exceptions, precludes the FDA from approving the marketing application of another drug for the same indication for that time period or precludes the EMA, and other national drug regulators in the EU, from accepting the marketing application for another medicinal product for the same indication. The applicable period is seven years in the United States and ten years in the European Union. The EU period can be reduced to six years if a product no longer meets the criteria for orphan drug designation or if the product is sufficiently profitable so that market exclusivity is no longer justified. In the EU, orphan exclusivity may also be extended for an additional two years (i.e., a maximum of 12 years' orphan exclusivity) if the product is approved on the basis of a dossier that includes pediatric clinical trial data generated in accordance with an approved paediatric investigation plan. Orphan drug exclusivity may be lost in the United States if the FDA determines that the request for designation was materially defective or if the manufacturer is unable to assure sufficient quantity of the product to meet the needs of patients with the rare disease or condition.

Even if we obtain orphan drug exclusivity for one or more of our products that exclusivity may not effectively protect the product from competition because exclusivity can be suspended under certain circumstances. In the United States, even after an orphan drug is approved, the FDA can subsequently approve another drug for the same condition if the FDA concludes that the later drug is clinically superior in that it is shown to be safer, more effective or makes a major contribution to patient care. In the European Union, orphan exclusivity will not prevent a marketing authorization being granted for a similar medicinal product in the same indication if the new product is safer, more effective or otherwise clinically superior to the first product or if the marketing authorization holder of the first product is unable to supply sufficient quantities of the product.

Our product candidates may have serious adverse, undesirable or unacceptable side effects which may delay or prevent marketing approval. If such side effects are identified during the development of our product candidates or following approval, if any, we may need to abandon our development of such product candidates, the commercial profile of any approved label may be limited, or we may be subject to other significant negative consequences following marketing approval, if any.

Although all of our product candidates have undergone or will undergo safety testing to the extent possible and agreed with health authorities, not all adverse effects of drugs can be predicted or anticipated. Immunotherapy and its method of action of harnessing the body's immune system, especially with respect to T-cell TandAbs, is powerful and could lead to serious side effects that we only discover in clinical trials. Unforeseen side effects from any of our product candidates could arise either during clinical development or, if such side effects are more rare, after our product candidates have been approved by regulatory authorities and the approved product has been marketed, resulting in the exposure of additional patients. All of our product candidates are still in clinical or preclinical development. While our phase 1 clinical trials for AFM13 demonstrated a favorable safety profile, the results from future trials of AFM13 may not confirm these results. We have recently commenced our phase 1 clinical trial of AFM11, the primary objective of which is to assess safety. The harnessing of T-cells to kill tumors is risky and may have unintended consequences. So far we have not previously demonstrated that AFM11 is safe in humans, and we cannot predict if the ongoing phase 1 clinical trial will do so.

Furthermore, we are initially developing our product candidates for patients with HL, TCL and NHL for whom no other therapies have succeeded and survival times are frequently short. Therefore, we expect that certain patients may die during the clinical trials of our product candidates, and it may be difficult to ascertain whether such deaths are attributable to the underlying disease, complications from the disease, our product candidates or a combination thereof.

The results of future clinical trials may show that our product candidates cause undesirable or unacceptable side effects, which could interrupt, delay or halt clinical trials, and result in delay of, or failure to obtain, marketing approval from the FDA, the European Commission and other regulatory authorities, or result in marketing approval from the FDA, the European Commission and other regulatory authorities with restrictive label warnings or potential product liability claims.

If any of our product candidates receives marketing approval and we or others later identify undesirable or unacceptable side effects caused by such products:

- · regulatory authorities may require us to take our approved product off the market;
- regulatory authorities may require the addition of labeling statements, specific warnings, a contraindication or field alerts to physicians and pharmacies;
- · we may be required to change the way the product is administered, conduct additional clinical trials or change the labeling of the product;
- · we may be subject to limitations on how we may promote the product;
- · sales of the product may decrease significantly;
- · we may be subject to litigation or product liability claims; and
- · our reputation may suffer.

Any of these events could prevent us, our collaborators or our potential future partners from achieving or maintaining market acceptance of the affected product or could substantially increase commercialization costs and expenses, which in turn could delay or prevent us from generating significant revenue from the sale of our products.

Adverse events in the field of immuno-oncology could damage public perception of our product candidates and negatively affect our business.

The commercial success of our products will depend in part on public acceptance of the use of cancer immunotherapies. Adverse events in clinical trials of our product candidates or in clinical trials of others developing similar products and the resulting publicity, as well as any other adverse events in the field of immuno-oncology that may occur in the future, could result in a decrease in demand for any products that we may develop. For example, Memorial Sloan Kettering's recent suspension of enrollment of a trial of Juno Therapeutic's therapy using T-cells reengineered with chimeric antigen receptors (CARs) against CD19-positive B-cells for aggressive NHL attracted significant negative attention (although the hold was subsequently lifted). Although the mode of action of our T-cell TandAbs differs from that of CARs, the public may not always differentiate between our therapies and others in the field. If public perception is influenced by claims that the use of cancer immunotherapies is unsafe, our products may not be accepted by the general public or the medical community.

Future adverse events in immuno-oncology or the biopharmaceutical industry could also result in greater governmental regulation, stricter labeling requirements and potential regulatory delays in the testing or approvals of our products. Any increased scrutiny could delay or increase the costs of obtaining regulatory approval for our product candidates.

We depend on enrollment of patients in our clinical trials for our product candidates. If we are unable to enroll patients in our clinical trials, our research and development efforts could be materially adversely affected.

Successful and timely completion of clinical trials will require that we enroll a sufficient number of patient candidates. Trials may be subject to delays as a result of patient enrollment taking longer than anticipated or patient withdrawal. Patient enrollment depends on many factors, including the size and nature of the patient population, eligibility criteria for the trial, the proximity of patients to clinical sites, the design of the clinical protocol, the availability of competing clinical trials, the availability of new drugs approved for the indication the clinical trial is investigating, and clinicians' and patients' perceptions as to the potential advantages of the drug being studied in relation to other available therapies. For example, our product candidate AFM13 has orphan drug designation for the treatment of HL, which means that the potential patient population is limited. Further, in our phase 2a clinical trial of AFM13 we plan to enroll patients with relapsed/refractory HL who have been treated with Adcetris (brentuximab vedotin), which is an even more limited population of patients. As we are developing AFM13 and AFM11 for patients for whom all other therapies have failed and who may not have long to live, patients may elect not to participate in our, or any, clinical trial. In addition, there are several other drugs potentially in development for the indications for which we may develop AFM13 and AFM11, and we may compete for patients with the sponsors of trials for those drugs. These factors may make it difficult for us to enroll enough patients to complete our clinical

trials in a timely and cost-effective manner. Delays in the completion of any clinical trial of our product candidates will increase our costs, slow down our product candidate development and approval process and delay or potentially jeopardize our ability to commence product sales and generate revenue. In addition, some of the factors that cause, or lead to, a delay in the commencement or completion of clinical trials may also ultimately lead to the denial of regulatory approval of our product candidates.

Even if approved, if any of our product candidates do not achieve broad market acceptance among physicians, patients, the medical community and third-party payors, our revenue generated from their sales will be limited.

The commercial success of our product candidates will depend upon their acceptance among physicians, patients and the medical community. The degree of market acceptance of our product candidates will depend on a number of factors, including:

- · limitations or warnings contained in the approved labeling for a product candidate;
- · changes in the standard of care for the targeted indications for any of our product candidates;
- · limitations in the approved clinical indications for our product candidates;
- · demonstrated clinical safety and efficacy compared to other products;
- · lack of significant adverse side effects;
- · sales, marketing and distribution support;
- · availability and extent of reimbursement from managed care plans and other third-party payors;
- timing of market introduction and perceived effectiveness of competitive products;
- the degree of cost-effectiveness of our product candidates;
- · availability of alternative therapies at similar or lower cost, including generic and over-the-counter products;
- the extent to which the product candidate is approved for inclusion on formularies of hospitals and managed care organizations;
- · whether the product is designated under physician treatment guidelines as a first-line therapy or as a second- or third-line therapy for particular diseases:
- adverse publicity about our product candidates or favorable publicity about competitive products;
- · convenience and ease of administration of our products; and
- · potential product liability claims.

If any of our product candidates are approved, but do not achieve an adequate level of acceptance by physicians, patients and the medical community, we may not generate sufficient revenue from these products, and we may not become or remain profitable. In addition, efforts to educate the medical community and third-party payors on the benefits of our product candidates may require significant resources and may never be successful.

We are subject to manufacturing risks that could substantially increase our costs and limit supply of our products.

The process of manufacturing our products is complex, highly regulated and subject to several risks, including:

· We do not have experience in manufacturing our product candidates at commercial scale. We plan to contract with external manufacturers to develop a larger scale process for manufacturing AFM13 in parallel with our clinical trials of AFM13, in order to have material from such commercial scale process available for a potential pivotal phase 2b trial for patients with HL. We may not succeed in the scaling up of our

process. We may need a larger scale manufacturing process for AFM11 than what we have planned, depending on the dose and regimen that will be determined in our phase 1 study. Any changes in our manufacturing processes as a result of scaling up may result in the need to obtain additional regulatory approvals. Difficulties in achieving commercial-scale production or the need for additional regulatory approvals as a result of scaling up could delay the development and regulatory approval of our product candidates and ultimately affect our success.

- The process of manufacturing biologics, such as AFM13, AFM11 and our other product candidates, is extremely susceptible to product loss due to contamination, equipment failure or improper installation or operation of equipment, vendor or operator error, inconsistency in yields, variability in product characteristics and difficulties in scaling the production process. Even minor deviations from normal manufacturing processes could result in reduced production yields, product defects and other supply disruptions. If microbial, viral or other contaminations are discovered in our product candidates or in the manufacturing facilities in which our product candidates are made, such manufacturing facilities may need to be closed for an extended period of time to investigate and remedy the contamination.
- · The manufacturing facilities in which our product candidates are made could be adversely affected by equipment failures, labor shortages, natural disasters, power failures and numerous other factors.
- · We must comply with applicable current Good Manufacturing Practice, or cGMP, regulations and guidelines. We may encounter difficulties in achieving quality control and quality assurance and may experience shortages in qualified personnel. We are subject to inspections by the FDA and comparable agencies in other jurisdictions to confirm compliance with applicable regulatory requirements. Any failure to follow cGMP or other regulatory requirements or delay, interruption or other issues that arise in the manufacture, fill-finish, packaging, or storage of our product candidates as a result of a failure of our facilities or the facilities or operations of third parties to comply with regulatory requirements or pass any regulatory authority inspection could significantly impair our ability to develop and commercialize our product candidates, including leading to significant delays in the availability of drug product for our clinical trials or the termination or hold on a clinical trial, or the delay or prevention of a filing or approval of marketing applications for our product candidates. Significant noncompliance could also result in the imposition of sanctions, including fines, injunctions, civil penalties, failure of regulatory authorities to grant marketing approvals for our product candidates, delays, suspension or withdrawal of approvals, license revocation, seizures or recalls of products, operating restrictions and criminal prosecutions, any of which could damage our reputation. If we are not able to maintain regulatory compliance, we may not be permitted to market our product candidates and/or may be subject to product recalls, seizures, injunctions, or criminal prosecution.
- · Any adverse developments affecting manufacturing operations for our product candidates, if any are approved, may result in shipment delays, inventory shortages, lot failures, product withdrawals or recalls, or other interruptions in the supply of our products. We may also have to take inventory write-offs and incur other charges and expenses for products that fail to meet specifications, undertake costly remediation efforts or seek more costly manufacturing alternatives.
- Our product candidates that have been produced and are stored for later use may degrade, become contaminated or suffer other quality defects, which
 may cause the affected product candidates to no longer be suitable for their intended use in clinical trials or other development activities. If the
 defective product candidates cannot be replaced in a timely fashion, we may incur significant delays in our development programs that could
 adversely affect the value of such product candidates.

We currently have no marketing, sales or distribution infrastructure. If we are unable to develop sales, marketing and distribution capabilities on our own or through collaborations, or if we fail to achieve adequate pricing and/or reimbursement we will not be successful in commercializing our product candidates.

We currently have no marketing, sales and distribution capabilities because our lead product candidates are still in clinical development. If any of our product candidates are approved, we intend either to establish a sales and marketing organization with technical expertise and supporting distribution capabilities to commercialize our product candidates, or to outsource this function to a third party. Either of these options would be expensive and time consuming. These costs may be incurred in advance of any approval of our product candidates. In addition, we

may not be able to hire a sales force that is sufficient in size or has adequate expertise in the medical markets that we intend to target. Any failure or delay in the development of our internal sales, marketing and distribution capabilities would adversely impact the commercialization of our products.

To the extent that we enter into collaboration agreements with respect to marketing, sales or distribution, our product revenue may be lower than if we directly marketed or sold any approved products. In addition, any revenue we receive will depend in whole or in part upon the efforts of these third-party collaborators, which may not be successful and are generally not within our control. If we are unable to enter into these arrangements on acceptable terms or at all, we may not be able to successfully commercialize any approved products. If we are not successful in commercializing any approved products, either on our own or through collaborations with one or more third parties, our future product revenue will suffer and we may incur significant additional losses.

We may not be able to achieve the prices for our products that we may need for sustained profitability. If we successfully develop combinations of our product candidates with other potentially expensive agents, the market may not allow for premium pricing of our products and hence may impair our ability to achieve profitability.

We face significant competition and if our competitors develop and market products that are more effective, safer or less expensive than our product candidates, our commercial opportunities will be negatively impacted.

The life sciences industry is highly competitive and subject to rapid and significant technological change. We are currently developing therapeutics that will compete with other drugs and therapies that currently exist or are being developed. Products we may develop in the future are also likely to face competition from other drugs and therapies, some of which we may not currently be aware. We have competitors both in the United States and internationally, including major multinational pharmaceutical companies, established biotechnology companies, specialty pharmaceutical companies, universities and other research institutions. Many of our competitors have significantly greater financial, manufacturing, marketing, drug development, technical and human resources than we do. Large pharmaceutical companies, in particular, have extensive experience in clinical testing, obtaining regulatory approvals, recruiting patients and in manufacturing pharmaceutical products. These companies also have significantly greater research and marketing capabilities than we do and may also have products that have been approved or are in late stages of development, and collaborative arrangements in our target markets with leading companies and research institutions. Established pharmaceutical companies may also invest heavily to accelerate discovery and development of novel compounds or to in-license novel compounds that could make the product candidates that we develop obsolete. As a result of all of these factors, our competitors may succeed in obtaining patent protection and/or marketing approval or discovering, developing and commercializing products in our field before we do.

There is a large number of companies developing or marketing treatments for cancer disorders, including many major pharmaceutical and biotechnology companies. These treatments consist both of small molecule drug products, as well as biologic therapeutics that work, among others, either by using next-generation antibody technology platforms or new immunological approaches to address specific cancer targets. These treatments are often combined with one another in an attempt to maximize the response rate. In addition, several companies are developing therapeutics that work by targeting multiple specificities using a single recombinant molecule, as we are.

In the HL salvage setting, Adcetris is an antibody-drug conjugate approved by the FDA in 2011 that targets CD30, the same target as AFM13. If and when AFM13 were to be approved for patients refractory to Adcetris, we would not compete directly with Adcetris. However, as we develop AFM13 for earlier-line therapies, for example in combination with other therapies as a second- or even first-line treatment, we would compete with Adcetris, which is in development for such indications. Recently, clinical phase 1 data with the anti PD-1 CPIs nivolumab and pembrolizumab was published in the New England Journal of Medicine and at several congresses. This early data indicates the potential of anti PD-1 antibodies to cause high response rates in the salvage setting of HL. The FDA has granted breakthrough designation for nivolumab in relapsed/refractory HL. Phase 2 studies are reported to be ongoing with nivolumab and in preparation for pembrolizumab. Further, we would be in competition with other therapies or combination regimens that currently comprise the standard of care that AFM13 could potentially displace. Other agents that have reached phase 2 clinical trials in HL include 4SC201 (4SC AG), Afinitor® (Novartis AG), idelalisib (Gilead Sciences), ferritarg (MABLife), iratumumab (Bristol-Myers Squibb) and PLX 3397 (Daiichi Sankyo).

With respect to competitors for AFM11, rituximab has been approved to treat certain types of NHL in both the United States and Europe and is generally combined with a chemotherapy regimen (typically CHOP or bendamustine). Imbruvica, a small molecule drug targeting malignant B-cells, was recently approved by the FDA to treat the mantle cell variant of NHL (MCL). Amgen develops cancer product candidates that work by targeting receptors both on immune cells and cancer cells, like our TandAbs. Amgen's blinatumomab, a product based on the BiTE (bispecific T-cell engager) technology, is an antibody construct similar to AFM11 and was recently approved by the FDA to treat patients with Philadelphia chromosome-negative precursor B-cell acute lymphoblastic leukemia (B-cell ALL). Similar to Amgen's blinatumomab is MacroGenics' MGD011, a CD19xCD3 DART which is still in preclinical development. In December 2014, Macrogenics entered a global partnership with Janssen Biotech on this development candidate. Juno Therapeutic, Novartis, Bellicum and Kite Pharma are developing therapies using T-cells reengineered with chimeric antigen receptors (CARs) against CD19-positive B-cells. This therapeutic approach, which utilizes a patient's own T-cells after ex-vivo genetic modification, is currently being investigated in early stage clinical trials. Although only early stage data are available, CAR treatments seem to result in high response rates.

We expect that our TandAb and trispecific antibody platforms will serve as the basis for future product candidates and collaborations with pharmaceutical companies. Other companies also have developed platform technologies that compete with us. For example, Macrogenics is developing its DART platform, which enables the targeting of multiple receptors or cells by using a single molecule with an antibody-like structure. Ablynx is also developing such a platform aimed at multi-receptor targeting, which to date has not reached clinical testing.

Our commercial opportunity could be reduced or eliminated if our competitors develop and commercialize products that are safer, more effective, have fewer or less severe effects, are more convenient, have a broader label, are marketed more effectively, are reimbursed or are less expensive than any products that we may develop. Our competitors also may obtain FDA, European Commission or other regulatory approval for their products more rapidly than we may obtain approval for ours, which could result in our competitors establishing a strong market position before we are able to enter the market. Even if our product candidates achieve marketing approval, they may be priced at a significant premium over competitive products if any have been approved by then, resulting in reduced competitiveness.

In addition, our ability to compete in the future may be affected in many cases by insurers or other third-party payors seeking to encourage the use of biosimilar products. In March 2010, President Obama signed into law the Patient Protection and Affordable Care Act, as amended by the Health Care and Education Reconciliation Act, or collectively, the Health Care Reform Law, a sweeping law intended to broaden access to health insurance, reduce or constrain the growth of healthcare spending, enhance remedies against fraud and abuse, add new transparency requirements for health care and health insurance industries, impose new taxes and fees on the health industry and impose additional health policy reforms. The Health Care Reform Law also created a new regulatory scheme authorizing the FDA to approve biosimilars. Under the Health Care Reform Law, a manufacturer may submit an application for licensure of a biologic product that is "biosimilar to" or "interchangeable with" a previously approved biological product or "reference product," without the need to submit a full package of preclinical and clinical data. Under this new statutory scheme, an application for a biosimilar product may not be submitted to the FDA until four years following approval of the reference product. The FDA may not approve a biosimilar product until 12 years from the date on which the reference product was approved. Even if a product is considered to be a reference product eligible for exclusivity, another company could market a competing version of that product if the FDA approves a full BLA for such product containing the sponsor's own preclinical data and data from adequate and well-controlled clinical trials to demonstrate the safety, purity and potency of their product. Furthermore, recent legislation has proposed that the 12 year exclusivity period for each a reference product may be reduced to seven years.

Smaller and other early stage companies may also prove to be significant competitors, particularly through collaborative arrangements with large and established companies. These third parties compete with us in recruiting and retaining qualified scientific and management personnel, establishing clinical trial sites and patient registration for clinical trials, as well as in acquiring technologies complementary to, or necessary for, our programs. In addition, the biopharmaceutical industry is characterized by rapid technological change. If we fail to stay at the forefront of technological change, we may be unable to compete effectively. Technological advances or products developed by our competitors may render our technologies or product candidates obsolete, less competitive or not economical.

Enacted and future legislation may increase the difficulty and cost for us to obtain marketing approval of and commercialize our product candidates and may affect the prices we may set. The successful commercialization of our product candidates will depend in part on the extent to which governmental authorities and health insurers establish adequate coverage and reimbursement levels and pricing policies.

In the United States, the European Union, its member states and some other foreign jurisdictions, there have been a number of legislative and regulatory changes and proposed changes regarding the healthcare system. These changes could prevent or delay marketing approval of our product candidates, restrict or regulate post-approval activities and affect our ability to sell profitably any products for which we obtain marketing approval. Among policy makers and payors in the United States and elsewhere, there is significant interest in promoting changes in healthcare systems with the stated goals of containing healthcare costs, improving quality and/or expanding access to healthcare.

In the United States, the Medicare Prescription Drug, Improvement, and Modernization Act of 2003, or the Medicare Modernization Act, changed the way Medicare covers and pays for pharmaceutical products. The legislation expanded Medicare coverage for drug purchases by the elderly and introduced a new reimbursement methodology based on average sale prices for physician-administered drugs. In addition, this legislation provided authority for limiting the number of drugs that will be covered in any therapeutic class. Cost-reduction initiatives and other provisions of this legislation could decrease the coverage and price that we receive for any approved products. If we successfully develop combinations of our product candidates with other potentially expensive agents, we may not achieve premium pricing for our products, which may impair our ability to achieve profitability. While the Medicare Modernization Act applies only to drug benefits for Medicare beneficiaries, private payors often follow Medicare coverage policy and payment limitations in setting their own reimbursement rates. Therefore, any reduction in reimbursement that results from the Medicare Modernization Act may result in a similar reduction in payments from private payors.

In addition, the Health Care Reform Law, among other things, increased rebates a manufacturer must pay to the Medicaid program, addressed a new methodology by which rebates owed by manufacturers under the Medicaid Drug Rebate Program are calculated for drugs that are inhaled, infused, instilled, implanted or injected, established a new Medicare Part D coverage gap discount program, in which manufacturers must provide 50% point-of-sale discounts on products covered under Part D and implemented payment system reforms including a national pilot program on payment bundling to encourage hospitals, physicians and other providers to improve the coordination, quality and efficiency of certain healthcare services through bundled payment models. Further, the new law imposed a significant annual fee on companies that manufacture or import branded prescription drug products. Substantial new provisions affecting compliance were enacted, which may affect our business practices with health care practitioners. The goal of the Health Care Reform Law is to reduce the cost of health care and substantially change the way health care is financed by both governmental and private insurers. While we cannot predict what impact on federal reimbursement policies this legislation will have in general or on our business specifically, the Health Care Reform Law may result in downward pressure on pharmaceutical reimbursement, which could negatively affect market acceptance of, and the price we may charge for, any products we develop that receive regulatory approval. We also cannot predict the impact of the Health Care Reform Law on our business or financial condition as many of the Health Care Reform Law reforms require the promulgation of detailed regulations implementing the statutory provisions, which has not yet occurred.

Moreover, other legislative changes have also been proposed and adopted in the United States since the Health Care Reform Law was enacted. On August 2, 2011, the Budget Control Act of 2011, among other things, created measures for spending reductions by Congress. A Joint Select Committee on Deficit Reduction, tasked with recommending a targeted deficit reduction of at least \$1.2 trillion for the years 2013 through 2021, was unable to reach required goals, thereby triggering the legislation's automatic reduction to several government programs. This includes aggregate reductions to Medicare payments to providers of 2% per fiscal year, which went into effect on April 1, 2013. On January 2, 2013, President Obama signed into law the American Taxpayer Relief Act of 2012, or the ATRA, which, among other things, further reduced Medicare payments to several providers, including hospitals, imaging centers and cancer treatment centers, and increased the statute of limitations period for the government to recover overpayments to providers from three to five years. These new laws may result in additional reductions in Medicare and other health care funding, which could have a material adverse effect on our customers and accordingly, our financial operations.

The delivery of healthcare in the European Union, including the establishment and operation of health services and the pricing and reimbursement of medicines, is almost exclusively a matter for national, rather than EU, law and policy. National governments and health service providers have different priorities and approaches to the delivery of health care and the pricing and reimbursement of products in that context. In general, however, the healthcare budgetary constraints in most EU member states have resulted in restrictions on the pricing and reimbursement of medicines by relevant health service providers. Coupled with ever-increasing EU and national regulatory burdens on those wishing to develop and market products, this could prevent or delay marketing approval of our product candidates, restrict or regulate post-approval activities and affect our ability to commercialize any products for which we obtain marketing approval.

If any product liability lawsuits are successfully brought against us or any of our collaborators, we may incur substantial liabilities and may be required to limit commercialization of our product candidates.

We face an inherent risk of product liability lawsuits related to the testing of our product candidates in seriously ill patients, and will face an even greater risk if product candidates are approved by regulatory authorities and introduced commercially. Product liability claims may be brought against us or our collaborators by participants enrolled in our clinical trials, patients, health care providers or others using, administering or selling any of our future approved products. If we cannot successfully defend ourselves against any such claims, we may incur substantial liabilities. Regardless of their merit or eventual outcome, liability claims may result in:

- · decreased demand for our future approved products;
- · injury to our reputation;
- · withdrawal of clinical trial participants;
- · termination of clinical trial sites or entire trial programs;
- · increased regulatory scrutiny;
- · significant litigation costs;
- · substantial monetary awards to or costly settlement with patients or other claimants;
- · product recalls or a change in the indications for which they may be used;
- loss of revenue;
- · diversion of management and scientific resources from our business operations; and
- the inability to commercialize our product candidates.

If any of our product candidates are approved for commercial sale, we will be highly dependent upon consumer perceptions of us and the safety and quality of our products. We could be adversely affected if we are subject to negative publicity. We could also be adversely affected if any of our products or any similar products distributed by other companies prove to be, or are asserted to be, harmful to patients. Because of our dependence upon consumer perceptions, any adverse publicity associated with illness or other adverse effects resulting from patients' use or misuse of our products or any similar products distributed by other companies could have a material adverse impact on our financial condition or results of operations.

We currently hold €10 million in product liability insurance coverage per year in the aggregate, with a per incident limit of €5 million except for environmental liability risks, for which the per incident limit is €3 million. We also hold €5 million in clinical trial insurance for the AFM11 phase 1 clinical trial with a per incident limit of €0.5 million. Our current insurance coverage may not be adequate to cover all liabilities that we may incur. We may need to increase our insurance coverage when we begin the commercialization of our product candidates. Insurance coverage is becoming increasingly expensive. As a result, we may be unable to maintain or obtain sufficient insurance at a reasonable cost to protect us against losses that could have a material adverse effect on our business. A successful product liability claim or series of claims brought against us, particularly if judgments exceed any

insurance coverage we may have, could decrease our cash resources and adversely affect our business, financial condition and results of operation.

Our business may become subject to economic, political, regulatory and other risks associated with international operations,

Our business is subject to risks associated with conducting business internationally. A number of our suppliers and collaborative and clinical trial relationships are located outside the United States. Accordingly, our future results could be harmed by a variety of factors, including:

- · economic weakness, including inflation, or political instability in particular non-U.S. economies and markets;
- · differing regulatory requirements for drug approvals in non-U.S. countries;
- · potentially reduced protection for intellectual property rights;
- · difficulties in compliance with non-U.S. laws and regulations;
- changes in non-U.S. regulations and customs, tariffs and trade barriers;
- · changes in non-U.S. currency exchange rates and currency controls;
- · changes in a specific country's or region's political or economic environment;
- trade protection measures, import or export licensing requirements or other restrictive actions by U.S. or non-U.S. governments;
- · negative consequences from changes in tax laws;
- · compliance with tax, employment, immigration and labor laws for employees living or traveling abroad;
- · workforce uncertainty in countries where labor unrest is more common than in the United States;
- $\cdot \quad \text{difficulties associated with staffing and managing international operations, including differing labor relations;}$
- · production shortages resulting from any events affecting raw material supply or manufacturing capabilities abroad; and
- · business interruptions resulting from geo-political actions, including war and terrorism, or natural disasters including earthquakes, typhoons, floods and fires.

Exchange rate fluctuations or abandonment of the euro currency may materially affect our results of operations and financial condition.

Potential future revenue may be derived from abroad, particularly from the United States. As a result, our business and share price may be affected by fluctuations in foreign exchange rates between the euro and these other currencies, which may also have a significant impact on our reported results of operations and cash flows from period to period. We have converted into euros only the portion of the IPO proceeds and the proceeds from our follow-on offering in May 2015 that will be spent in euros according to our budget. If the euro/US\$ ratio changes, we may be subject to foreign exchange-rate risk. Currently, we do not have any other exchange rate hedging measures in place. In addition, the possible abandonment of the euro by one or more members of the European Union could materially affect our business in the future. Despite measures taken by the European Union to provide funding to certain EU member states in financial difficulties and by a number of European countries to stabilize their economies and reduce their debt burdens, it is possible that the euro could be abandoned in the future as a currency by countries that have adopted its use. This could lead to the re-introduction of individual currencies in one or more EU member states, or in more extreme circumstances, the dissolution of the European Union. The effects on our business of a potential dissolution of the European Union, the exit of one or more EU member states from the

European Union or the abandonment of the euro as a currency, are impossible to predict with certainty, and any such events could have a material adverse effect on our business, financial condition and results of operations.

Risks Related to Our Financial Position and Need for Additional Capital

We have incurred significant losses since inception and anticipate that we will continue to incur losses for the foreseeable future. We have no products approved for commercial sale, and to date we have not generated any revenue or profit from product sales. We may never achieve or sustain profitability.

We are a clinical-stage biopharmaceutical company with a limited operating history. We have incurred significant losses since our inception. As of June 30, 2015, our accumulated deficit was €106.7 million. Our losses have resulted principally from expenses incurred in research and development of our product candidates and from general and administrative expenses that we have incurred while building our business infrastructure. We expect to continue to incur losses for the foreseeable future, and we expect these losses to increase as we continue our research and development of, and seek regulatory approvals for, our product candidates, prepare for and begin to commercialize any approved products, and add infrastructure and personnel to support our product development efforts and operations as a public company. The net losses and negative cash flows incurred to date, together with expected future losses, have had, and likely will continue to have, an adverse effect on our shareholders' equity and working capital. The amount of future net losses will depend, in part, on the rate of future growth of our expenses and our ability to generate revenue.

Because of the numerous risks and uncertainties associated with pharmaceutical product development, we are unable to accurately predict the timing or amount of increased expenses or when, or if, we will be able to achieve profitability. For example, our expenses could increase if we are required by the FDA or the EMA to perform trials in addition to those that we currently expect to perform, or if there are any delays in completing our currently planned clinical trials or in the development of any of our product candidates.

To become and remain profitable, we must succeed in developing and commercializing products with significant market potential. This will require us to be successful in a range of challenging activities for which we are only in the preliminary stages, including developing product candidates, obtaining regulatory approval for them, and manufacturing, marketing and selling those products for which we may obtain regulatory approval. We may never succeed in these activities and may never generate revenue from product sales that is significant enough to achieve profitability. Our ability to generate future revenue from product sales depends heavily on our success in many areas, including but not limited to:

- completing research and clinical development of our product candidates, including successfully completing registration clinical trials of AFM13 or AFM11:
- · obtaining marketing approvals for our product candidates, including AFM13 or AFM11, for which we complete clinical trials;
- developing a sustainable and scalable manufacturing process for any approved product candidates and maintaining supply and manufacturing relationships with third parties that can conduct the process and provide adequate (in amount and quality) products to support clinical development and the market demand for our product candidates, if approved;
- · launching and commercializing product candidates for which we obtain marketing approval, either directly or with a collaborator or distributor;
- · establishing sales, marketing, and distribution capabilities in the United States;
- · obtaining market acceptance of our product candidates as viable treatment options;
- · addressing any competing technological and market developments;
- · identifying, assessing, acquiring and/or developing new product candidates;
- · negotiating favorable terms in any collaboration, licensing, or other arrangements into which we may enter;

- · maintaining, protecting, and expanding our portfolio of intellectual property rights, including patents, trade secrets, and know-how; and
- · attracting, hiring and retaining qualified personnel.

Even if one or more of the product candidates that we develop is approved for commercial sale, we anticipate incurring significant costs associated with commercializing any approved product candidate. Because of the numerous risks and uncertainties with pharmaceutical product development, we are unable to accurately predict the timing or amount of increased expenses or when, or if, we will be able to achieve profitability. Even if we achieve profitability in the future, we may not be able to sustain profitability in subsequent periods. Our failure to become or remain profitable would depress our market value and could impair our ability to raise capital, expand our business, develop other product candidates, or continue our operations. A decline in the value of our company could also cause you to lose all or part of your investment.

We will require substantial additional funding, which may not be available to us on acceptable terms, or at all, and, if not available, may require us to delay, scale back, or cease our product development programs or operations.

We are advancing our product candidates through clinical development. Developing pharmaceutical products, including conducting preclinical studies and clinical trials, is expensive. In order to obtain such regulatory approval, we will be required to conduct clinical trials for each indication for each of our product candidates. We will require additional funding to complete the development and commercialization of our product candidates and to continue to advance the development of our other product candidates, and such funding may not be available on acceptable terms or at all. Although it is difficult to predict our liquidity requirements, based upon our current operating plan, we anticipate that our existing cash and cash equivalents and additional budgeted revenues will enable us to fund the clinical development of AFM13, AFM11 and AFM21 for at least until the third quarter of 2017, assuming all of our programs advance as currently contemplated. Any net proceeds from this offering would extend our financial reach, assuming that the plans for our clinical and preclinical activities remain unchanged. Because successful development of our product candidates is uncertain, we are unable to estimate the actual funds we will require to complete research and development and to commercialize our product candidates.

Our future funding requirements will depend on many factors, including but not limited to:

- · the number and characteristics of other product candidates that we pursue;
- · the scope, progress, timing, cost and results of research, preclinical development, and clinical trials;
- the costs, timing and outcome of seeking and obtaining FDA and non-U.S. regulatory approvals;
- the costs associated with manufacturing our product candidates and establishing sales, marketing, and distribution capabilities;
- · our ability to maintain, expand, and defend the scope of our intellectual property portfolio, including the amount and timing of any payments we may be required to make in connection with the licensing, filing, defense and enforcement of any patents or other intellectual property rights;
- the extent to which we acquire or in-license other products or technologies;
- · our need and ability to hire additional management, scientific, and medical personnel;
- · the effect of competing products that may limit market penetration of our product candidates;
- the amount and timing of revenues, if any, we receive from commercial sales of any product candidates for which we receive marketing approval in the future;
- \cdot our need to implement additional internal systems and infrastructure, including financial and reporting systems; and

• the economic and other terms, timing of and success of our existing collaborations, and any collaboration, licensing, or other arrangements into which we may enter in the future, including the timing of achievement of milestones and receipt of any milestone or royalty payments under these agreements.

Until we can generate a sufficient amount of product revenue to finance our cash requirements, which we may never do, we expect to finance future cash needs primarily through a combination of public or private equity offerings, debt financings, strategic collaborations, and grant funding. If sufficient funds on acceptable terms are not available when needed, or at all, we could be forced to significantly reduce operating expenses and delay, scale back or eliminate one or more of our development programs or our business operations or even go bankrupt.

Raising additional capital may cause dilution to our shareholders, including purchasers of common shares in this offering, restrict our operations or require us to relinquish substantial rights.

Until such time, if ever, as we can generate substantial product revenue, we expect to finance our cash needs through a combination of equity offerings, debt financings, grants and license and development agreements in connection with any collaborations. We do not have any committed external source of funds. To the extent that we raise additional capital through the sale of equity or convertible debt securities, your ownership interest will be diluted, and the terms of these new securities may include liquidation or other preferences that adversely affect your rights as a holder of our common shares. Debt financing, if available at all, may involve agreements that include covenants limiting or restricting our ability to take specific actions such as incurring additional debt, making capital expenditures, or declaring dividends. If we raise additional funds through collaborations, strategic alliances, or licensing arrangements with third parties, we may have to relinquish valuable rights to our technologies, product candidates, or future revenue streams, or grant licenses on terms that are not favorable to us. We cannot assure you that we will be able to obtain additional funding if and when necessary. If we are unable to obtain adequate financing on a timely basis, we could be required to delay, scale back or eliminate one or more of our development programs or grant rights to develop and market product candidates that we would otherwise prefer to develop and market ourselves.

We have broad discretion in the use of the net proceeds from this offering and our cash on hand and may not use them effectively.

As of June 30, 2015, we had €66.3 million in cash and cash equivalents. Our management will have broad discretion in the use of such cash and cash equivalents and the proceeds from this offering and could spend them in ways that do not improve our results of operations or enhance the value of our common shares. The failure by our management to apply these funds effectively could result in financial losses that could have a material adverse effect on our business, cause the price of our common shares to decline and delay the development of our product candidates. Pending their use, we may invest our cash and cash equivalents in a manner that does not produce income or that loses value.

Our ability to use our net operating loss carry forwards and other tax attributes may be limited.

Our ability to utilize our net operating losses, or NOLs, is currently limited, and may be limited further, under Section 8c of the Körperschaftsteuergesetz (the German Corporation Income Tax Act) and Section 10c of the Gewerbesteuergesetz (the German Trade Tax Act). These limitations apply if a qualified ownership change, as defined by Section 8c of the Körperschaftsteuergesetz, occurs and no exemption is applicable. Generally, a qualified ownership change occurs if more than 25% of the share capital or the voting rights are directly or indirectly transferred to a shareholder or a group of shareholders within a period of 5 years. A qualified ownership change may also occur in case of an increase in capital leading to a respective change in the shareholding. In the case of such a qualified ownership change tax loss carry forwards, consisting of the NOLs in the same percentage as the ownership change, cannot be utilized. If the percentage of the ownership change exceeds 50%, tax loss carry forwards expire in full. To the extent that the tax loss carry forwards do not exceed hidden reserves taxable in Germany, they may be further utilized despite a qualified ownership change.

As of December 31, 2014, we had NOL carry forwards for German tax purposes of €72.6 million available. Future changes in share ownership may also trigger an ownership change and, consequently, a Section 8c Körperschaftsteuergesetz or a Section 10c Gewerbesteuergesetz limitation. Any limitation may result in the expiration of a portion or the complete tax operating loss carry forwards before they can be utilized. As a result, if

we earn net taxable income, our ability to use our pre-change net operating loss carry forwards to reduce German income tax may be subject to limitations, which could potentially result in increased future cash tax liability to us.

Risks Related to Our Dependence on Third Parties

Our existing collaborations on research and development candidates are important to our business, and future collaborations may also be important to us. If we are unable to maintain any of these collaborations, if these collaborations are not successful or if we fail to enter into new strategic relationships, our business could be adversely affected.

We have entered into collaborations with other companies that we believe have provided us with valuable funding, including our collaboration through Amphivena and our collaboration with The Leukemia & Lymphoma Society. In the future, we may enter into additional collaborations to leverage our technology platforms, fund our research and development programs or to gain access to sales, marketing or distribution capabilities. Our existing collaborations, and any future collaborations we enter into, may pose a number of risks, including the following:

- · collaborators may have significant discretion in determining the efforts and resources that they will apply to these collaborations;
- · collaborators may not perform their obligations as expected;
- collaborators may not pursue development and commercialization of any product candidates that achieve regulatory approval or may elect not to continue or renew development or commercialization programs based on clinical trial results, changes in the collaborators' strategic focus or available funding, or external factors, such as an acquisition, that divert resources or create competing priorities;
- · collaborators may delay clinical trials, provide insufficient funding for a clinical trial program, stop a clinical trial or abandon a product candidate, repeat or conduct new clinical trials or require a new formulation of a product candidate for clinical testing;
- · collaborators could independently develop, or develop with third parties, products that compete directly or indirectly with our products or product candidates if the collaborators believe that competitive products are more likely to be successfully developed or can be commercialized under terms that are more economically attractive than ours;
- product candidates discovered in collaboration with us may be viewed by our collaborators as competitive with their own product candidates or products, which may cause collaborators to cease to devote resources to the commercialization of our product candidates;
- · a collaborator with marketing and distribution rights to one or more of our product candidates that achieve regulatory approval may not commit sufficient resources to the marketing and distribution of such product or products;
- · disagreements with collaborators, including disagreements over proprietary rights, contract interpretation or the preferred course of development, might cause delays or termination of the research, development or commercialization of product candidates, might lead to additional responsibilities for us with respect to product candidates, or might result in litigation or arbitration, any of which would be time-consuming and expensive;
- · collaborators may not properly maintain or defend our intellectual property rights or may use our proprietary information in such a way as to invite litigation that could jeopardize or invalidate our intellectual property or proprietary information or expose us to potential litigation;
- · collaborators may infringe the intellectual property rights of third parties, which may expose us to litigation and potential liability; and

· collaborations may be terminated for the convenience of the collaborator and, if terminated, we could be required to raise additional capital to pursue further development or commercialization of the applicable product candidates.

If our collaborations on research and development candidates do not result in the successful development and commercialization of products or if one of our collaborators terminates its agreement with us, we may not receive any future research funding or milestone or royalty payments under the collaboration. If we do not receive the funding we expect under these agreements, our development of our technology platforms and product candidates could be delayed and we may need additional resources to develop product candidates and our technology platforms. All of the risks relating to product development, regulatory approval and commercialization described in this prospectus supplement also apply to the activities of our program collaborators. Furthermore, Amphivena has entered into a warrant agreement with Janssen Biotech Inc. that gives Janssen the option to acquire Amphivena following IND acceptance by the FDA, upon predetermined terms, in exchange for payments under the warrant. If Janssen does not exercise its option to purchase Amphivena or terminates the warrant early, such action could be viewed as having negative implications for our business and prospects. Additionally, if Amphivena does not have enough funding to pay the license and development fees due to us under the license and development agreement, there is a risk that funding will not be available to continue the development of the program. If such lack of funding exists, we may never reach IND acceptance.

Additionally, subject to its contractual obligations to us, if one of our collaborators is involved in a business combination, the collaborator might deemphasize or terminate the development or commercialization of any product candidate licensed to it by us. If one of our collaborators terminates its agreement with us, we may find it more difficult to attract new collaborators.

For some of our product candidates, we may in the future determine to collaborate with additional pharmaceutical and biotechnology companies for development and potential commercialization of therapeutic products. We face significant competition in seeking appropriate collaborators. Our ability to reach a definitive agreement for a collaboration will depend, among other things, upon our assessment of the collaborator's resources and expertise, the terms and conditions of the proposed collaboration and the proposed collaborator's evaluation of a number of factors. These factors may include the design or results of clinical trials, the likelihood of approval by the FDA, the European Commission or similar regulatory authorities outside the United States, the potential market for the subject product candidate, the costs and complexities of manufacturing and delivering such product candidate to patients, the potential of competing products, the existence of uncertainty with respect to our ownership of technology, which can exist if there is a challenge to such ownership without regard to the merits of the challenge and industry and market conditions generally. The collaborator may also consider alternative product candidates or technologies for similar indications that may be available to collaborate on and whether such a collaboration could be more attractive than the one with us for our product candidate.

Collaborations are complex and time-consuming to negotiate and document. In addition, there have been a significant number of recent business combinations among large pharmaceutical companies that have resulted in a reduced number of potential future collaborators. If we are unable to reach agreements with suitable collaborators on a timely basis, on acceptable terms, or at all, we may have to curtail the development of a product candidate, reduce or delay one or more of our other development programs, delay its potential commercialization or reduce the scope of any sales or marketing activities, or increase our expenditures and undertake development or commercialization activities at our own expense. If we elect to fund and undertake development or commercialization activities on our own, we may need to obtain additional expertise and additional capital, which may not be available to us on acceptable terms or at all. If we fail to enter into collaborations and do not have sufficient funds or expertise to undertake the necessary development and commercialization activities, we may not be able to further develop our product candidates or bring them to market or continue to develop our technology platforms and our business may be materially and adversely affected.

We may also be restricted under existing collaboration agreements from entering into future agreements on certain terms with potential collaborators. Subject to certain specified exceptions, our collaboration with Amphivena contains restrictions on our engaging in activities that are the subject of the collaboration with third parties for specified periods of time.

Independent clinical investigators and CROs that we engage to conduct our clinical trials may not devote sufficient time or attention to our clinical trials or be able to repeat their past success.

We expect to continue to depend on independent clinical investigators and CROs to conduct our clinical trials. CROs may also assist us in the collection and analysis of data. There is a limited number of third-party service providers that specialize or have the expertise required to achieve our business objectives. Identifying, qualifying and managing performance of third-party service providers can be difficult, time consuming and cause delays in our development programs. These investigators and CROs will not be our employees and we will not be able to control, other than by contract, the amount of resources, including time, which they devote to our product candidates and clinical trials. In addition, certain of our clinical trials are sponsored by academic sites known as Investigator Sponsored Trials, or ISTs. By definition, the financing, design and conduct of the study is under the responsibility of the respective sponsor. Therefore, we have limited control over these studies and we do not have control over the timing and reporting of the data from these trials. The following studies are ISTs: AFM13 phase 2a in HL and AFM13 phase 1b/2a in CD30+ lymphona as well as our planned academic phase 1b/2a clinical trial of AFM13 with Columbia University. If independent investigators or CROs fail to devote sufficient resources to the development of our product candidates, or if their performance is substandard, it may delay or compromise the prospects for approval and commercialization of any product candidates that we develop. In addition, the use of third-party service providers requires us to disclose our proprietary information to these parties, which could increase the risk that this information will be misappropriated. Further, the FDA and other regulatory authorities require that we comply with standards, commonly referred to as current Good Clinical Practice, or cGCP, for conducting, recording and reporting clinical trials to assure that data and reported results are credible and accurate and that the rights,

We contract with third parties for the manufacture of our product candidates for clinical testing and expect to continue to do so for commercialization. This reliance on third parties increases the risk that we will not have sufficient quantities of our product candidates or products or such quantities at an acceptable cost, which could delay, prevent or impair our development or commercialization efforts.

We anticipate continuing our engagement of contract manufacturing organizations to provide our clinical supply and internal capacity as we advance our product candidates into and through clinical development. We expect to use third parties for the manufacture of our product candidates for clinical testing, as well as for commercial manufacture. We plan eventually to enter into long-term supply agreements with several manufacturers for commercial supplies. We may be unable to reach agreement on satisfactory terms with contract manufacturers to manufacture our product candidates.

Additionally, the facilities to manufacture our product candidates must be the subject of a satisfactory inspection before the FDA, the EMA or other regulatory authorities approve a BLA or grant a marketing authorization for the product candidate manufactured at that facility. We will depend on these third-party manufacturing partners for compliance with the FDA's and the EMA's requirements for the manufacture of our finished products. If our manufacturers cannot successfully manufacture material that conforms to our specifications and the FDA, European Commission and other regulatory authorities' cGMP requirements, our product candidates will not be approved or, if already approved, may be subject to recalls.

Reliance on third-party manufacturers entails risks to which we would not be subject if we manufactured the product candidates ourselves, including:

- · the possibility of a breach of the manufacturing agreements by the third parties because of factors beyond our control;
- the possibility of termination or nonrenewal of the agreements by the third parties before we are able to arrange for a qualified replacement third-party manufacturer; and
- the possibility that we may not be able to secure a manufacturer or manufacturing capacity in a timely manner and on satisfactory terms in order to meet our manufacturing needs.

Any of these factors could cause the delay of approval or commercialization of our product candidates, cause us to incur higher costs or prevent us from commercializing our product candidates successfully. Furthermore, if any of our product candidates are approved and contract manufacturers fail to deliver the required commercial quantities of finished product on a timely basis and at commercially reasonable prices, and we are unable to find one or more replacement manufacturers capable of production at a substantially equivalent cost, in substantially equivalent volumes and quality and on a timely basis, we would likely be unable to meet demand for our products and could lose potential revenue. It may take several years to establish an alternative source of supply for our product candidates and to have any such new source approved by the FDA, the EMA or any other relevant regulatory authorities.

Risks Related to Our Intellectual Property

If we are unable to obtain and enforce patent protection for our product candidates and related technology, our business could be materially harmed.

Issued patents may be challenged, narrowed, invalidated or circumvented. In addition, court decisions may introduce uncertainty in the enforceability or scope of patents owned by biotechnology companies. The legal systems of certain countries do not favor the aggressive enforcement of patents, and the laws of non-U.S. countries may not allow us to protect our inventions with patents to the same extent as the laws of the United States and Europe. Because patent applications in the United States, Europe and many other non-U.S. jurisdictions are typically not published until 18 months after filing, or in some cases not at all, and because publications of discoveries in scientific literature lag behind actual discoveries, we cannot be certain that we were the first to make the inventions claimed in our issued patents or pending patent applications, or that we were the first to file for protection of the inventions set forth in our patents or patent applications. As a result, we may not be able to obtain or maintain protection for certain inventions. Therefore, the enforceability and scope of our patents in the United States, Europe and in other non-U.S. countries cannot be predicted with certainty and, as a result, any patents that we own or license may not provide sufficient protection against competitors. We may not be able to obtain or maintain patent protection from our pending patent applications, from those we may file in the future, or from those we may license from third parties. Moreover, even if we are able to obtain patent protection, such patent protection may be of insufficient scope to achieve our business objectives.

We own and/or control our AFM13 patent portfolio, which includes three patent families. Our first patent family is issued and relates to the engineered antibody format, which is called TandAb, and the methods of making or using such bispecific, tetravalent domain antibodies. This patent family will expire in 2019. The second patent family on AFM13 consists of European patents relating to the use of the specific target combination for the treatment of cancer using a bispecific molecule and will expire in 2020. Our third patent family relates to the mode of action of AFM13, the recruitment of immune effector cells via a specific receptor. This patent will expire in 2026. We also own and/or control our AFM11 patent portfolio, which includes issued patents and pending patent applications. As in the case of AFM13, our issued patent relates to the engineered antibody format and will expire in 2019. The pending patent application family claims a new TandAb structure which was specifically used in AFM11. If issued, this patent will expire in 2030.

Our strategy depends on our ability to identify and seek patent protection for our discoveries. This process is expensive and time consuming, and we may not be able to file and prosecute all necessary or desirable patent applications at a reasonable cost or in a timely manner or in all jurisdictions where protection may be commercially advantageous, or we may financially not be able to protect our proprietary rights at all. Despite our efforts to protect our proprietary rights, unauthorized parties may be able to obtain and use information that we regard as proprietary. The issuance of a patent does not ensure that it is valid or enforceable, so even if we obtain patents, they may not be valid or enforceable against third parties. In addition, the issuance of a patent does not give us the right to practice the patented invention. Third parties may have blocking patents that could prevent us from marketing our own patented product and practicing our own patented technology. Third parties may also seek to market biosimilar versions of any approved products. Alternatively, third parties may seek approval to market their own products similar to or otherwise competitive with our products. In these circumstances, we may need to defend and/or assert our patents, including by filing lawsuits alleging patent infringement. In any of these types of proceedings, a court or agency with jurisdiction may find our patents invalid and/or unenforceable. Even if we have valid and enforceable patents, these patents still may not provide protection against competing products or processes sufficient to achieve our business objectives.

The patent position of pharmaceutical or biotechnology companies, including ours, is generally uncertain and involves complex legal and factual considerations for which legal principles remain unsolved. The standards which the United States Patent and Trademark Office, or USPTO, and its non-U.S. counterparts use to grant patents are not always applied predictably or uniformly and can change. There is also no uniform, worldwide policy regarding the subject matter and scope of claims granted or allowable in pharmaceutical or biotechnology patents. The laws of some non-U.S. countries do not protect proprietary information to the same extent as the laws of the United States, and many companies have encountered significant problems and costs in protecting their proprietary information in these non-U.S. countries. Outside the United States, patent protection must be sought in individual jurisdictions, further adding to the cost and uncertainty of obtaining adequate patent protection outside of the United States. Accordingly, we cannot predict whether additional patents protecting our technology will issue in the United States or in non-U.S. jurisdictions, or whether any patents that do issue will have claims of adequate scope to provide competitive advantage. Moreover, we cannot predict whether third parties will be able to successfully obtain claims or the breadth of such claims. The allowance of broader claims may increase the incidence and cost of patent interference proceedings, opposition proceedings, and/or reexamination proceedings, the risk of infringement litigation, and the vulnerability of the claims to challenge. On the other hand, the allowance of narrower claims does not eliminate the potential for adversarial proceedings, and may fail to provide a competitive advantage. Our issued patents may not contain claims sufficiently broad to protect us against third parties with similar technologies or products, or provide us with any competitive advantage.

We may become involved in lawsuits to protect or enforce our patents, which could be expensive, time consuming and unsuccessful.

Even after they have issued, our patents and any patents which we license may be challenged, narrowed, invalidated or circumvented. If our patents are invalidated or otherwise limited or will expire prior to the commercialization of our product candidates, other companies may be better able to develop products that compete with ours, which could adversely affect our competitive business position, business prospects and financial condition.

The following are examples of litigation and other adversarial proceedings or disputes that we could become a party to involving our patents or patents licensed to us:

- · we or our collaborators may initiate litigation or other proceedings against third parties to enforce our patent rights;
- third parties may initiate litigation or other proceedings seeking to invalidate patents owned by or licensed to us or to obtain a declaratory judgment that their product or technology does not infringe our patents or patents licensed to us;
- third parties may initiate opposition or reexamination proceedings challenging the validity or scope of our patent rights, requiring us or our collaborators and/or licensors to participate in such proceedings to defend the validity and scope of our patents;
- there may be a challenge or dispute regarding inventorship or ownership of patents currently identified as being owned by or licensed to us;
- the U.S. Patent and Trademark Office may initiate an interference between patents or patent applications owned by or licensed to us and those of our competitors, requiring us or our collaborators and/or licensors to participate in an interference proceeding to determine the priority of invention, which could jeopardize our patent rights; or
- third parties may seek approval to market biosimilar versions of our future approved products prior to expiration of relevant patents owned by or licensed to us, requiring us to defend our patents, including by filing lawsuits alleging patent infringement.

These lawsuits and proceedings would be costly and could affect our results of operations and divert the attention of our managerial and scientific personnel. There is a risk that a court or administrative body would decide that our patents are invalid or not infringed by a third party's activities, or that the scope of certain issued claims must be further limited. An adverse outcome in a litigation or proceeding involving our own patents could limit our

ability to assert our patents against these or other competitors, affect our ability to receive royalties or other licensing consideration from our licensees, and may curtail or preclude our ability to exclude third parties from making, using and selling similar or competitive products. Any of these occurrences could adversely affect our competitive business position, business prospects and financial condition.

The degree of future protection for our proprietary rights is uncertain because legal means afford only limited protection and may not adequately protect our rights or permit us to gain or keep our competitive advantage. For example:

- · others may be able to develop a platform that is similar to, or better than, ours in a way that is not covered by the claims of our patents;
- · others may be able to make compounds that are similar to our product candidates but that are not covered by the claims of our patents;
- · we might not have been the first to make the inventions covered by patents or pending patent applications;
- we might not have been the first to file patent applications for these inventions;
- · any patents that we obtain may not provide us with any competitive advantages or may ultimately be found invalid or unenforceable; or
- · we may not develop additional proprietary technologies that are patentable.

Our commercial success depends significantly on our ability to operate without infringing the patents and other proprietary rights of third parties.

Our success will depend in part on our ability to operate without infringing the proprietary rights of third parties. Other entities may have or obtain patents or proprietary rights that could limit our ability to make, use, sell, offer for sale or import our future approved products or impair our competitive position.

Patents could be issued to third parties that we may ultimately be found to infringe. Third parties may have or obtain valid and enforceable patents or proprietary rights that could block us from developing product candidates using our technology. Our failure to obtain a license to any technology that we require may materially harm our business, financial condition and results of operations. Moreover, our failure to maintain a license to any technology that we require may also materially harm our business, financial condition, and results of operations. Furthermore, we would be exposed to a threat of litigation.

In the pharmaceutical industry, significant litigation and other proceedings regarding patents, patent applications, trademarks and other intellectual property rights have become commonplace. The types of situations in which we may become a party to such litigation or proceedings include:

- we or our collaborators may initiate litigation or other proceedings against third parties seeking to invalidate the patents held by those third parties or to obtain a judgment that our products or processes do not infringe those third parties' patents;
- if our competitors file patent applications that claim technology also claimed by us or our licensors, we or our licensors may be required to participate in interference or opposition proceedings to determine the priority of invention, which could jeopardize our patent rights and potentially provide a third party with a dominant patent position;
- · if third parties initiate litigation claiming that our processes or products infringe their patent or other intellectual property rights, we and our collaborators will need to defend against such proceedings; and
- · if a license to necessary technology is terminated, the licensor may initiate litigation claiming that our processes or products infringe or misappropriate their patent or other intellectual property rights and/or that we breached our obligations under the license agreement, and we and our collaborators would need to defend against such proceedings.

These lawsuits would be costly and could affect our results of operations and divert the attention of our management and scientific personnel. There is a risk that a court would decide that we or our collaborators are infringing the third party's patents and would order us or our collaborators to stop the activities covered by the patents. In that event, we or our collaborators may not have a viable alternative to the technology protected by the patent and may need to halt work on the affected product candidate or cease commercialization of an approved product. In addition, there is a risk that a court will order us or our collaborators to pay the other party damages. An adverse outcome in any litigation or other proceeding could subject us to significant liabilities to third parties and require us to cease using the technology that is at issue or to license the technology from third parties. We may not be able to obtain any required licenses on commercially acceptable terms or at all. Any of these outcomes could have a material adverse effect on our business.

The pharmaceutical and biotechnology industries have produced a significant number of patents, and it may not always be clear to industry participants, including us, which patents cover various types of products or methods of use. The coverage of patents is subject to interpretation by the courts, and the interpretation is not always uniform or predictable. If we are sued for patent infringement, we would need to demonstrate that our products or methods either do not infringe the patent claims of the relevant patent or that the patent claims are invalid, and we may not be able to do this. Proving invalidity is difficult. For example, in the United States, proving invalidity requires a showing of clear and convincing evidence to overcome the presumption of validity enjoyed by issued patents. Even if we are successful in these proceedings, we may incur substantial costs and divert management's time and attention in pursuing these proceedings, which could have a material adverse effect on us. If we are unable to avoid infringing the patent rights of others, we may be required to seek a license, defend an infringement action or challenge the validity of the patents in court. Patent litigation is costly and time consuming. We may not have sufficient resources to bring these actions to a successful conclusion. In addition, if we do not obtain a license, develop or obtain non-infringing technology, fail to defend an infringement action successfully or have infringed patents declared invalid, we may incur substantial monetary damages, encounter significant delays in bringing our product candidates to market and be precluded from manufacturing or selling our product candidates.

The cost of any patent litigation or other proceeding, even if resolved in our favor, could be substantial. Some of our competitors may be able to sustain the cost of such litigation and proceedings more effectively than we can because of their substantially greater resources. Uncertainties resulting from the initiation and continuation of patent litigation or other proceedings could have a material adverse effect on our ability to compete in the marketplace. Patent litigation and other proceedings may also absorb significant management time.

If our trademarks and trade names are not adequately protected, then we may not be able to build name recognition in our markets of interest and our business may be adversely affected.

Our registered or unregistered trademarks or trade names may be challenged, infringed, circumvented or declared generic or determined to be infringing on other marks. We may not be able to protect our rights to these trademarks and trade names, which we need to build name recognition by potential partners or customers in our markets of interest. Over the long term, if we are unable to establish name recognition based on our trademarks and trade names, then we may not be able to compete effectively and our business may be adversely affected.

The patent protection and patent prosecution for some of our product candidates is dependent on third parties.

While we normally seek to obtain the right to control prosecution, maintenance and enforcement of the patents relating to our product candidates, there may be times when the filing and prosecution activities for patents relating to our product candidates are controlled by our licensors. This is the case under the terms of our license agreements with DKFZ and Xoma, where DKFZ and Xoma are entirely responsible for the prosecution, protection and maintenance of the licensed patents and patent applications. Neither DKFZ nor Xoma has any obligation to provide us any information with respect to such prosecution and we will not have access to any patent prosecution or maintenance information that is not publicly available. Although we monitor DKFZ's and Xoma's ongoing prosecution and maintenance of the licensed patents, if DKFZ, Xoma or any of our future licensing partners fail to prosecute, maintain and enforce such patents and patent applications in a manner consistent with the best interests of our business, including by payment of all applicable fees for patents covering AFM13, AFM11 or any of our product candidates, we could lose our rights to the intellectual property or our exclusivity with respect to those rights, our ability to develop and commercialize those product candidates may be adversely affected and we may not be able to prevent competitors from making, using, and selling competing products.

Our business may be adversely affected if we are unable to gain access to relevant intellectual property rights of third parties, or if our licensing partners terminate our rights in certain technologies that are licensed or sublicensed to us.

We currently rely, and may in the future rely, on certain intellectual property rights licensed from third parties in order to be able to use various proprietary technologies that are material to our business. For example, our TandAb technology was developed under certain patents licensed exclusively to us by DKFZ under a 2001 license agreement which was subsequently amended in 2006. Additionally, an antibody generated in the development of our TandAb candidates was developed using antibody phage display technologies licensed to us by Xoma. In each of these cases, the licensor retains their full ownership interest with respect to the licensed patent rights, and our rights to use the technologies associated with those patents and to employ the inventions claimed in the licensed patent rights are subject to the continuation of and our compliance with the terms of those licenses.

In some cases, we do not control the prosecution, maintenance or filing of the patents to which we hold licenses, and the enforcement of our licensed patents or defense of any claims asserting the invalidity of these patents is subject to the control or cooperation of our licensors. For example, DKFZ retains responsibility for the prosecution and maintenance of its patent rights licensed under the terms of its agreement with us, and Xoma retains the right, at its sole discretion, to enforce, maintain and otherwise protect its patent rights licensed to us pursuant to our 2006 license agreement with Xoma. We cannot be certain that our licensors will prosecute, maintain, enforce and defend the licensed patent rights in a manner consistent with the best interests of our business. We also cannot be certain that drafting or prosecution of the licensed patents by our licensors have been conducted in compliance with applicable laws and regulations and will result in valid and enforceable patents and other intellectual property rights.

We are a party to a number of agreements, including license agreements, through which we have gained rights to certain intellectual property that relate to our business and we expect to enter into additional such agreements in the future. Our existing agreements impose, and we expect that future agreements will impose, various diligence, commercialization, milestone payment, royalty, and other obligations on us. Certain of our licenses, including each of our licenses with DKFZ and Xoma, contain provisions that allow the licensor to terminate the license upon the occurrence of specific events or conditions. For example, our rights under each of the licenses described above are subject to our continued compliance with the terms of the licenses, certain diligence and development obligations, the payment of royalties, milestone payments and other fees, and certain disclosure and confidentiality obligations. If we are found to be in breach of any of our license agreements, in certain circumstances our licensors may take action against us, including by terminating the applicable license. Because of the complexity of our product candidates and the patents we have licensed, determining the scope of the licenses and related obligations may be difficult and could lead to disputes between us and the licensor. An unfavorable resolution of such a dispute could lead to an increase in the royalties payable pursuant to the license or a termination of the license. If any of our licensors were to terminate our license agreement with them, we may be prevented from the continued use of certain technologies, including our rights to the TandAb, Flexibody and antibody phage display technologies, in clinical trials or, if our products are approved for marketing, from using such technologies in the manufacturing of products that could be sold commercially. This could delay or prevent us from offering our product candidates. We might not have the necessary rights or the financial resources to develop, manufacture or market our current o

Under certain of our agreements, our licensors have the right to convert an exclusive license to a non-exclusive license upon the expiration of the initial exclusivity period or upon the occurrence of certain events. Such a conversion would potentially allow third parties to practice the technologies licensed under the agreement, and could materially adversely affect the value of the product candidate we are developing under the agreement. In addition to the above risks, certain of our intellectual property rights are sublicenses under intellectual property owned by third parties. The actions of our licensors may therefore affect our rights to use our sublicensed intellectual property, even if we are in compliance with all of the obligations under our license agreements.

We may not be successful in obtaining or maintaining necessary rights to our product candidates through acquisitions and in-licenses.

We currently have rights to the intellectual property, through licenses from third parties and under patents that we own, to develop our product candidates. Because our programs may require the use of proprietary rights held by third parties, the growth of our business will likely depend in part on our ability to acquire, in-license, maintain or use these proprietary rights. In addition, our product candidates may require specific formulations to work effectively and efficiently and the rights to these formulations may be held by others. We may be unable to acquire or in-license any compositions, methods of use, processes, or other third-party intellectual property rights from third parties that we identify as necessary for our product candidates. The licensing and acquisition of third-party intellectual property rights is a competitive area, and a number of more established companies are also pursuing strategies to license or acquire third-party intellectual property rights that we may consider attractive. These established companies may have a competitive advantage over us due to their size, cash resources, and greater clinical development and commercialization capabilities.

For example, we sometimes collaborate with U.S. and non-U.S. academic institutions to accelerate our preclinical research or development under written agreements with these institutions. Typically, these institutions provide us with an option to negotiate a license to any of the institution's rights in technology resulting from the collaboration. Regardless of such option, we may be unable to negotiate a license within the specified timeframe or under terms that are acceptable to us. If we are unable to do so, the institution may offer the intellectual property rights to other parties, potentially blocking our ability to pursue our applicable product candidate or program.

In addition, companies that perceive us to be a competitor may be unwilling to assign or license rights to us. We also may be unable to license or acquire third-party intellectual property rights on terms that would allow us to make an appropriate return on our investment. If we are unable to successfully obtain a license to third-party intellectual property rights necessary for the development of a product candidate or program, we may have to abandon development of that product candidate or program and our business and financial condition could suffer.

If we are unable to protect the confidentiality of our proprietary information, the value of our technology and products could be adversely affected.

In addition to patent protection, we also rely on other proprietary rights, including protection of trade secrets, and other proprietary information. To maintain the confidentiality of trade secrets and proprietary information, we enter into confidentiality agreements with our employees, consultants, collaborators and others upon the commencement of their relationships with us. These agreements require that all confidential information developed by the individual or made known to the individual by us during the course of the individual's relationship with us be kept confidential and not disclosed to third parties. Our agreements with employees and our personnel policies also provide that any inventions conceived by the individual in the course of rendering services to us shall be our exclusive property. However, we may not obtain these agreements in all circumstances, and individuals with whom we have these agreements may not comply with their terms. Thus, despite such agreement, such inventions may become assigned to third parties. In the event of unauthorized use or disclosure of our trade secrets or proprietary information, these agreements, even if obtained, may not provide meaningful protection, particularly for our trade secrets or other confidential information. To the extent that our employees, consultants or contractors use technology or know-how owned by third parties in their work for us, disputes may arise between us and those third parties as to the rights in related inventions. To the extent that an individual who is not obligated to assign rights in intellectual property to us is rightfully an inventor of intellectual property, we may need to obtain an assignment or a license to that intellectual property from that individual, or a third party or from that individual's assignee. Such assignment or license may not be available on commercially reasonable terms or at all.

Adequate remedies may not exist in the event of unauthorized use or disclosure of our proprietary information. The disclosure of our trade secrets would impair our competitive position and may materially harm our business, financial condition and results of operations. Costly and time consuming litigation could be necessary to enforce and determine the scope of our proprietary rights, and failure to maintain trade secret protection could adversely affect our competitive business position. In addition, others may independently discover or develop our trade secrets and proprietary information, and the existence of our own trade secrets affords no protection against such independent discovery.

As is common in the biotechnology and pharmaceutical industries, we employ individuals who were previously or concurrently employed at research institutions and/or other biotechnology or pharmaceutical companies, including our competitors or potential competitors. We may be subject to claims that these employees, or we, have inadvertently or otherwise used or disclosed trade secrets or other proprietary information of their former employers, or that patents and applications we have filed to protect inventions of these employees, even those related to one or more of our product candidates, are rightfully owned by their former or concurrent employer. Litigation may be necessary to defend against these claims. Even if we are successful in defending against these claims, litigation could result in substantial costs and be a distraction to management.

Obtaining and maintaining our patent protection depends on compliance with various procedural, documentary, fee payment and other requirements imposed by governmental patent agencies, and our patent protection could be reduced or eliminated for non-compliance with these requirements.

Periodic maintenance fees, renewal fees, annuity fees and various other governmental fees on patents and/or applications will be due to the USPTO and various non-U.S. patent offices at various points over the lifetime of our patents and/or applications. We have systems in place to remind us to pay these fees, and we rely on our outside counsel to pay these fees when due. Additionally, the USPTO and various non-U.S. patent offices require compliance with a number of procedural, documentary, fee payment and other similar provisions during the patent application process. We employ reputable law firms and other professionals to help us comply, and in many cases, an inadvertent lapse can be cured by payment of a late fee or by other means in accordance with rules applicable to the particular jurisdiction. However, there are situations in which noncompliance can result in abandonment or lapse of the patent or patent application, resulting in partial or complete loss of patent rights in the relevant jurisdiction. If such an event were to occur, it could have a material adverse effect on our business. In addition, we are responsible for the payment of patent fees for patent rights that we have licensed from other parties. If any licensor of these patents does not itself elect to make these payments, and we fail to do so, we may be liable to the licensor for any costs and consequences of any resulting loss of patent rights.

We may not be able to protect our intellectual property rights throughout the world.

Filing, prosecuting, and defending patents on product candidates in all countries throughout the world would be prohibitively expensive, and our intellectual property rights in some countries outside the United States can be less extensive than those in the United States and Europe. In addition, the laws of some countries outside the United States and Europe, such as China, do not protect intellectual property rights to the same extent as federal and state laws in the United States and laws in Europe. Consequently, we may not be able to prevent third parties from practicing our inventions in all countries outside the United States and Europe, or from selling or importing products made using our inventions in and into the United States, Europe or other jurisdictions. As part of ordinary course prosecution and maintenance activities, we determine whether and in which countries to seek patent protection outside the United States and Europe. This also applies to patents we have acquired or in-licensed from third parties. In some cases this means that we, or our predecessors in interest or licensors of patents within our portfolio, have sought patent protection in a limited number of countries for patents covering our product candidates.

Competitors may use our technologies in jurisdictions where we have not obtained or are unable to adequately enforce patent protection to develop their own products and further, may export otherwise infringing products to territories where we have patent protection, but enforcement is not as strong as that in the United States and Europe. These products may compete with our products and our patents or other intellectual property rights may not be effective or sufficient to prevent them from competing.

Many companies have encountered significant problems in protecting and defending intellectual property rights in jurisdictions outside the United States and Europe. The legal systems of certain countries, particularly certain developing countries, do not favor the enforcement of patents, trade secrets, and other intellectual property protection, particularly those relating to biotechnology products, which could make it difficult for us to stop the infringement of our patents, the reproduction of our manufacturing or other know-how or marketing of competing products in violation of our proprietary rights generally. Proceedings to enforce our patent rights in jurisdictions outside the United States and Europe, whether or not successful, could result in substantial costs and divert our efforts and attention from other aspects of our business, could put our patents at risk of being invalidated or interpreted narrowly and our patent applications at risk of not issuing and could provoke third parties to assert claims against us. We may not prevail in any lawsuits that we initiate and the damages or other remedies awarded, if any, may not be commercially meaningful. Accordingly, our efforts to enforce our intellectual property rights

around the world may be inadequate to obtain a significant commercial advantage from the intellectual property that we develop or license.

Certain of our employees and patents are subject to German law.

Approximately 40 of our personnel, including our managing directors, work in Germany and are subject to German employment law. Ideas, developments, discoveries and inventions made by such employees are subject to the provisions of the German Act on Employees' Inventions (*Gesetz über Arbeitnehmererfindungen*), which regulates the ownership of, and compensation for, inventions made by employees. We face the risk that disputes may occur between us and our employees or ex-employees pertaining to the sufficiency of compensation paid by us, allocation of rights to inventions under this act or alleged non-adherence to the provisions of this act, any of which may be costly to resolve and take up our management's time and efforts whether we prevail or fail in such dispute. In addition, under the German Act on Employees' Inventions, certain employees retain rights to patents they invented or co-invented prior to 2009. While we believe that all of our German employee inventors have subsequently assigned to us their interest in patents they invented or co-invented, there is a risk that the compensation we provided to them may be deemed to be insufficient, and we may be required under German law to increase the compensation due to such employees for the use of the patents. If we are required to pay additional compensation or face other disputes under the German Act on Employees' Inventions, our results of operations could be adversely affected.

If we do not obtain protection under the Hatch-Waxman Amendments and similar non-U.S. legislation for extending the term of patents covering each of our product candidates, our business may be materially harmed.

Depending upon the timing, duration and conditions of FDA marketing approval of our product candidates, one or more of our U.S. patents may be eligible for limited patent term extension under the Drug Price Competition and Patent Term Restoration Act of 1984, referred to as the Hatch-Waxman Amendments and similar legislation in the EU. The Hatch-Waxman Amendments permit a patent term extension of up to five years for a patent covering an approved product as compensation for effective patent term lost during product development and the FDA regulatory review process. However, we may not receive an extension if we fail to apply within applicable deadlines, fail to apply prior to expiration of relevant patents or otherwise fail to satisfy applicable requirements. Moreover, the length of the extension could be less than we request. If we are unable to obtain patent term extension or the term of any such extension is less than we request, the period during which we can enforce our patent rights for that product will be shortened and our competitors may obtain approval to market competing products sooner. As a result, our revenue from applicable products could be reduced, possibly materially.

Our information technology systems could face serious disruptions that could adversely affect our business.

Our information technology and other internal infrastructure systems, including corporate firewalls, servers, leased lines and connection to the Internet, face the risk of systemic failure that could disrupt our operations. A significant disruption in the availability of our information technology and other internal infrastructure systems could cause interruptions in our collaborations with our partners and delays in our research and development work.

Risks Related to Legal Compliance Matters

Because we and our suppliers are subject to environmental, health and safety laws and regulations, we may become exposed to liability and substantial expenses in connection with environmental compliance or remediation activities which may adversely affect our business and financial condition.

Our operations, including our research, development, testing and manufacturing activities, are subject to numerous environmental, health and safety laws and regulations. These laws and regulations govern, among other things, the controlled use, handling, release and disposal of, and the maintenance of a registry for, hazardous materials and biological materials, such as chemical solvents, human cells, carcinogenic compounds, mutagenic compounds and compounds that have a toxic effect on reproduction, laboratory procedures and exposure to blood-borne pathogens. If we fail to comply with such laws and regulations, we could be subject to fines or other sanctions.

As with other companies engaged in activities similar to ours, we face a risk of environmental liability inherent in our current and historical activities, including liability relating to releases of or exposure to hazardous or biological materials. Environmental, health and safety laws and regulations are becoming more stringent. We may

be required to incur substantial expenses in connection with future environmental compliance or remediation activities, in which case, our production and development efforts may be interrupted or delayed and our financial condition and results of operations may be materially adversely affected.

The third parties with whom we contract to manufacture our product candidates are also subject to these and other environmental, health and safety laws and regulations. Liabilities they incur pursuant to these laws and regulations could result in significant costs or in certain circumstances, an interruption in operations, any of which could adversely impact our business and financial condition if we are unable to find an alternate supplier in a timely manner.

Our employees may engage in misconduct or other improper activities, including noncompliance with regulatory standards and requirements and insider trading.

We are exposed to the risk of employee fraud or other misconduct. Misconduct by employees could include intentional failures to comply with FDA or EMA regulations, to provide accurate information to the FDA or the EMA or intentional failures to report financial information or data accurately or to disclose unauthorized activities to us. Employee misconduct could also involve the improper use of information obtained in the course of clinical trials, which could result in regulatory sanctions and serious harm to our reputation. We have adopted a code of conduct, but it is not always possible to identify and deter employee misconduct, and the precautions we take to detect and prevent this activity may not be effective in controlling unknown or unmanaged risks or losses or in protecting us from governmental investigations or other actions or lawsuits stemming from a failure to comply with these laws or regulations. If any such actions are instituted against us, and we are not successful in defending ourselves or asserting our rights, those actions could have a significant impact on our business, including the imposition of significant fines or other sanctions.

Risks Relating to Employee Matters and Managing Growth

Our future success depends on our ability to retain key executives and to attract, retain and motivate qualified personnel.

We are highly dependent on the research and development, clinical and business development expertise of our managing directors and other key employees. We have entered into multi-year executive agreements with our managing directors. If any of our managing directors or other key employees becomes unavailable to perform services for us, we may not be able to find a qualified replacement in a timely fashion, which could impede the achievement of our research, development and commercialization objectives and seriously harm our ability to successfully implement our business strategy. The contracts with the three managing directors run until the end of the general meeting in 2017. We do not maintain any key man insurance for our managing directors at this time.

Recruiting and retaining qualified scientific, clinical, manufacturing and sales and marketing personnel will also be critical to our success. In addition, we will need to expand and effectively manage our managerial, operational, financial, development and other resources in order to successfully pursue our research, development and commercialization efforts for our existing and future product candidates. Furthermore, replacing managing directors and key employees may be difficult and may take an extended period of time because of the limited number of individuals in our industry with the breadth of skills and experience required to successfully develop, gain regulatory approval of and commercialize products. Competition to hire from this limited pool is intense, and we may be unable to hire, train, retain or motivate these key personnel on acceptable terms given the competition among numerous pharmaceutical and biotechnology companies for similar personnel. We also experience competition for the hiring of scientific and clinical personnel from universities and research institutions. In addition, we rely on consultants and advisors, including scientific and clinical advisors, to assist us in formulating our research and development and commercialization strategy. Our consultants and advisors may be employed by employers other than us and may have commitments under consulting or advisory contracts with other entities that may limit their availability to us. If we are unable to continue to attract and retain high quality personnel, our ability to pursue our growth strategy will be limited.

We will need to grow our organization, specifically to expand our development, and regulatory capabilities, and we may experience difficulties in managing this growth, which could disrupt our operations.

We have 63 personnel (57 full time equivalents), including those of our subsidiaries. As our development and commercialization plans and strategies develop, we expect to expand our employee base for development, regulatory, managerial, operational, sales, marketing, financial and other resources. Future growth would impose significant added responsibilities on members of management, including the need to identify, recruit, maintain, motivate and integrate additional employees. Also, our management may need to divert a disproportionate amount of their attention away from our day-to-day activities and devote a substantial amount of time to managing these growth activities. We may not be able to effectively manage the expansion of our operations which may result in weaknesses in our infrastructure, give rise to operational errors, loss of business opportunities, loss of employees and reduced productivity among remaining employees. Our expected growth could require significant capital expenditures and may divert financial resources from other projects, such as the development of existing and additional product candidates. If our management is unable to effectively manage our expected growth, our expenses may increase more than expected, our ability to generate and/or grow revenue could be reduced and we may not be able to implement our business strategy. Our future financial performance and our ability to commercialize our product candidates and compete effectively with others in our industry will depend, in part, on our ability to effectively manage any future growth.

Risks Related to Our Common Shares and this Offering

Our share price has been and may in the future be volatile, which could cause holders of our common shares to incur substantial losses.

You should consider an investment in our common shares as risky and invest only if you can withstand a significant loss and wide fluctuations in the market value of your investment. You may be unable to sell your common shares at or above the public offering price due to fluctuations in the market price of our common shares arising from changes in our operating performance or prospects. Our share price has been and in the future may be subject to substantial price volatility. In addition, the stock market has recently experienced significant volatility, particularly with respect to pharmaceutical, biotechnology, and other life sciences company stocks. The volatility of pharmaceutical, biotechnology and other life sciences company stocks often does not relate to the operating performance of the companies represented by the stock. Some of the factors that may cause the market price of our common shares to fluctuate or decrease below the price paid in this offering include:

- · results and timing of our clinical trials and clinical trials of our competitors' products;
- · failure or discontinuation of any of our development programs;
- · issues in manufacturing our product candidates or future approved products;
- regulatory developments or enforcement in the United States and non-U.S. countries with respect to our product candidates or our competitors' products;
- · failure to achieve pricing and/or reimbursement;
- · competition from existing products or new products that may emerge;
- · developments or disputes concerning patents or other proprietary rights;
- · introduction of technological innovations or new commercial products by us or our competitors;
- · announcements by us, our collaborators or our competitors of significant acquisitions, strategic partnerships, joint ventures, collaborations or capital commitments;
- · changes in estimates or recommendations by securities analysts, if any cover our common shares;
- fluctuations in the valuation of companies perceived by investors to be comparable to us;
- · public concern over our product candidates or any future approved products;

- · litigation;
- · future sales of our common shares;
- · share price and volume fluctuations attributable to inconsistent trading volume levels of our shares;
- · additions or departures of key personnel;
- · changes in the structure of health care payment systems in the United States or overseas;
- · failure of any of our product candidates, if approved, to achieve commercial success;
- · economic and other external factors or other disasters or crises;
- · period-to-period fluctuations in our financial condition and results of operations, including the timing of receipt of any milestone or other payments under commercialization or licensing agreements;
- · general market conditions and market conditions for biopharmaceutical stocks; and
- · overall fluctuations in U.S. equity markets.

In addition, in the past, when the market price of a stock has been volatile, holders of that stock have instituted securities class action litigation against the company that issued the stock. If any of our shareholders brought a lawsuit against us, we could incur substantial costs defending the lawsuit and divert the time and attention of our management, which could seriously harm our business.

Certain of our shareholders own a majority of our common shares and as a result will be able to exercise significant control over us, and your interests may conflict with the interests of our existing shareholders.

After this offering, a small number of shareholders, together with our supervisory directors and managing directors, may continue to own more than a majority of our outstanding common shares. Depending on the level of attendance at our general meetings of shareholders, these shareholders as a group may be in a position to determine the outcome of decisions taken at any such general meeting. Any shareholder or group of shareholders controlling more than 50% of the capital present or represented by independent proxy and voting at our general meetings of shareholders may control any shareholder resolution requiring a simple majority, including the election of our managing directors and supervisory directors, certain decisions relating to our capital structure, the approval of certain significant corporate transactions and amendments to our Articles of Association. To the extent that the interests of these shareholders may differ from the interests of our other shareholders, the latter may be disadvantaged by any action that these shareholders may seek to pursue. Among other consequences, this concentration of ownership may have the effect of delaying or preventing a change in control and might therefore negatively affect the market price of our common shares.

Future sales, or the possibility of future sales, of a substantial number of our common shares could adversely affect the price of the shares and dilute shareholders.

Future sales of a substantial number of our common shares, or the perception that such sales will occur, could cause a decline in the market price of our common shares. As of the date of this prospectus supplement, we have outstanding 29,934,168 common shares. This does not include the shares that we are selling in this offering, which may be resold in the public market immediately without restriction, unless purchased by our affiliates. If our existing shareholders sell substantial amounts of common shares in the public market, or the market perceives that such sales may occur, the market price of our common shares and our ability to raise capital through an issue of equity securities in the future could be adversely affected. 9,660,066 common shares held by certain shareholders have been included within the registration statement of which this prospectus supplement forms a part.

In addition, we have registered on a Form S-8 registration statement all common shares that we may issue under our equity compensation plans. As a result, these shares can be freely sold in the public market upon issuance, subject to volume limitations applicable to affiliates.

If you purchase common shares in this offering, you will suffer immediate dilution of your investment.

Therefore, if you purchase common shares in this offering, you may pay a price per common share that exceeds our as adjusted net tangible book value per common share after this offering. To the extent outstanding options or warrants are exercised, you will incur further dilution. Assuming that an aggregate of 8,278,145 of our common shares are sold at a price of \$6.04 per share pursuant to this prospectus supplement, which was the last reported sale price of our common shares on the Nasdaq Global Market on September 29, 2015, for aggregate gross proceeds of \$50,000,000, after deducting commissions and estimated aggregate offering expenses payable by us, you would experience immediate dilution of \$3.01 per common share, representing the difference between our as adjusted net tangible book value per share as of June 30, 2015, after giving effect to this offering and the assumed offering price. In addition, purchasers of common shares in this offering will have contributed approximately 23% of the aggregate price paid by all purchasers of our common shares but will own only approximately 22% of our common shares outstanding after this offering, assuming that an aggregate of 8,278,145 of our common shares are sold at a price of \$6.04 per share pursuant to this prospectus supplement, which was the last reported sale price of our common shares on the Nasdaq Global Market on September 29, 2015, for aggregate gross proceeds of \$50,000,000. See "Dilution."

We are a foreign private issuer and, as a result, we are not subject to U.S. proxy rules and are subject to Exchange Act reporting obligations that, to some extent, are more lenient and less frequent than those of a U.S. domestic public company.

We report under the Securities Exchange Act of 1934, as amended, or the Exchange Act, as a non-U.S. company with foreign private issuer status. Because we qualify as a foreign private issuer under the Exchange Act and although we are subject to Dutch laws and regulations with regard to such matters and intend to furnish quarterly financial information to the SEC, we are exempt from certain provisions of the Exchange Act that are applicable to U.S. domestic public companies, including (i) the sections of the Exchange Act regulating the solicitation of proxies, consents or authorizations in respect of a security registered under the Exchange Act, (ii) the sections of the Exchange Act requiring insiders to file public reports of their stock ownership and trading activities and liability for insiders who profit from trades made in a short period of time and (iii) the rules under the Exchange Act requiring the filing with the Securities and Exchange Commission (SEC) of quarterly reports on Form 10-Q containing unaudited financial and other specified information, or current reports on Form 8-K, upon the occurrence of specified significant events. In addition, foreign private issuers are not required to file their annual report on Form 20-F until four months after the end of each fiscal year, while U.S. domestic issuers that are accelerated filers are required to file their annual report on Form 10-K within 75 days after the end of each fiscal year. Foreign private issuers are also exempt from the Regulation Fair Disclosure, aimed at preventing issuers from making selective disclosures of material information. As a result of the above, you may not have the same protections afforded to shareholders of companies that are not foreign private issuers.

As a foreign private issuer and as permitted by the listing requirements of Nasdaq, we follow certain home country governance practices rather than the corporate governance requirements of the Nasdaq.

We are a foreign private issuer. As a result, in accordance with the listing requirements of The Nasdaq Global Market, or Nasdaq, we follow home country governance requirements and certain exemptions thereunder rather than comply with the corporate governance requirements of Nasdaq. In accordance with Dutch law and generally accepted business practices, our Articles of Association do not provide quorum requirements generally applicable to general meetings of shareholders in the United States. To this extent, our practice varies from the requirement of Nasdaq Listing Rule 5620(c), which requires an issuer to provide in its bylaws for a generally applicable quorum, and that such quorum may not be less than one-third of the outstanding voting stock. Although we must provide shareholders with an agenda and other relevant documents for the general meeting of shareholders, Dutch law does not have a regulatory regime for the solicitation of proxies and the solicitation of proxies is not a generally accepted business practice in the Netherlands, thus our practice will vary from the requirement of Nasdaq Listing Rule 5620(b). As permitted by the listing requirements of Nasdaq, we have also opted out of the requirements of Nasdaq Listing Rule 5605(d), which requires, inter alia, an issuer to have a compensation committee that consists entirely of independent directors, and Nasdaq Listing Rule 5605(e), which requires independent director oversight of director nominations. As permitted by the listing requirements of Nasdaq, we have an audit committee that consists of two, rather than three, independent members. In addition, we have opted out of shareholder approval requirements, as included in the Nasdaq Listing Rules, for the issuance of securities in connection with certain events such as the

acquisition of stock or assets of another company, the establishment of or amendments to equity-based compensation plans for employees, a change of control of us and certain private placements. To this extent, our practice varies from the requirements of Nasdaq Rule 5635, which generally requires an issuer to obtain shareholder approval for the issuance of securities in connection with such events. Accordingly, you may not have the same protections afforded to shareholders of companies that are subject to these Nasdaq requirements.

We may lose our foreign private issuer status which would then require us to comply with the Exchange Act's domestic reporting regime and cause us to incur significant legal, accounting and other expenses.

We are a foreign private issuer and therefore we are not required to comply with all of the periodic disclosure and current reporting requirements of the Exchange Act applicable to U.S. domestic issuers. If in the future we are not a foreign private issuer as of the second fiscal quarter in any fiscal year, we would be required to comply with all of the periodic disclosure and current reporting requirements of the Exchange Act applicable to U.S. domestic issuers. In order to maintain our current status as a foreign private issuer, either (a) a majority of our common shares must be either directly or indirectly owned of record by non-residents of the United States or (b)(i) a majority of our managing directors or supervisory directors may not be United States citizens or residents, (ii) more than 50 percent of our assets cannot be located in the United States and (iii) our business must be administered principally outside the United States. If we were to lose this status, we would be required to comply with the Exchange Act reporting and other requirements applicable to U.S. domestic issuers, which are more detailed and extensive than the requirements for foreign private issuers. We may also be required to make changes in our corporate governance practices in accordance with various SEC and stock exchange rules. The regulatory and compliance costs to us under U.S. securities laws if we are required to comply with the reporting requirements applicable to a U.S. domestic issuer may be significantly higher than the cost we would incur as a foreign private issuer status would increase our legal and financial compliance costs and would make some activities highly time consuming and costly. We also expect that if we were required to comply with the rules and regulations applicable to U.S. domestic issuers, it would make it more difficult and expensive for us to obtain director and officer liability insurance, and we may be required to accept reduced coverage or incur substantially higher costs to obtain coverage. Thes

We are an "emerging growth company," and we cannot be certain if the reduced reporting requirements applicable to "emerging growth companies" will make our common shares less attractive to investors.

We are an "emerging growth company," as defined in the JOBS Act. For as long as we continue to be an "emerging growth company," we may take advantage of exemptions from various reporting requirements that are applicable to other public companies that are not "emerging growth companies," including not being required to comply with the auditor attestation requirements of Section 404 of the Sarbanes-Oxley Act of 2002, exemptions from the requirements of holding a nonbinding advisory vote on executive compensation and shareholder approval of any golden parachute payments not previously approved. We could be an "emerging growth company" for a period of five years following the completion of our initial public offering (2019), although circumstances could cause us to lose that status earlier, including if the market value of our common shares held by non-affiliates exceeds \$700 million as of any June 30 (the end of our second fiscal quarter) before that time, in which case we would no longer be an "emerging growth company" as of the following December 31 (our fiscal year end). We cannot predict if investors will find our common shares less attractive because we may rely on these exemptions. If some investors find our common shares less attractive as a result, there may be a less active trading market for our common shares and the price of our common shares may be more volatile.

We do not anticipate paying cash dividends, and accordingly, shareholders must rely on stock appreciation for any return on their investment.

We currently intend to retain our future earnings, if any, to fund the development and growth of our businesses. As a result, capital appreciation, if any, of our common shares will be your sole source of gain on your investment for the foreseeable future. Investors seeking cash dividends should not invest in our common shares.

If securities or industry analysts do not publish research or publish inaccurate or unfavorable research about our business, our share price and trading volume could decline.

The trading market for our common shares depends on the research and reports that securities or industry analysts publish about us or our business. We do not have any control over these analysts. We cannot assure you that analysts will cover us or provide favorable coverage. If one or more of the analysts who cover us downgrade our shares or change their opinion of our shares, our share price would likely decline. If one or more of these analysts cease coverage of our company or fail to regularly publish reports on us, we could lose visibility in the financial markets, which could cause our share price or trading volume to decline.

We are a Dutch public company with limited liability. The rights of our shareholders may be different from the rights of shareholders in companies governed by the laws of U.S. jurisdictions and may not protect investors in a similar fashion afforded by incorporation in a U.S. jurisdiction.

We are a Dutch public company with limited liability (*naamloze vennootschap*) organized under the laws of the Netherlands. Our corporate affairs are governed by our Articles of Association and by the laws governing companies incorporated in the Netherlands. A further summary of applicable Dutch company law is contained in this prospectus supplement under "Description of Share Capital and Articles of Association." However, there can be no assurance that Dutch law will not change in the future or that it will serve to protect investors in a similar fashion afforded under corporate law principles in the United States, which could adversely affect the rights of investors.

The rights of shareholders and the responsibilities of managing directors and supervisory directors may be different from the rights and obligations of shareholders and board members in companies governed by the laws of U.S. jurisdictions. In the performance of its duties, our management board and supervisory board are required by Dutch law to consider the interests of our company, its shareholders, its employees and other stakeholders, in all cases with due observation of the principles of reasonableness and fairness. It is possible that some of these parties will have interests that are different from, or in addition to, your interests as a shareholder. See "Description of Share Capital and Articles of Association—Comparison of Dutch Corporate Law and our Articles of Association and U.S. Corporate Law—Corporate Governance" in the registration statement of which this prospectus supplement forms a part.

For more information, we have provided summaries of relevant Dutch corporation law and of our Articles of Association under "Description of Share Capital and Articles of Association."

Provisions of our Articles of Association or Dutch corporate law might deter acquisition bids for us that might be considered favorable and prevent or frustrate any attempt to replace or remove the then management board and supervisory board.

Certain provisions of our Articles of Association may make it more difficult for a third party to acquire control of us or effect a change in our management board or supervisory board. These provisions include: the authorization of a class of shares that may be issued to a friendly party; staggered four-year terms of our supervisory directors; a provision that our managing directors and supervisory directors may only be removed by the general meeting of shareholders by a two-thirds majority of votes cast representing more than 50% of our outstanding share capital (unless the removal was proposed by the supervisory board); and a requirement that certain matters, including an amendment of our Articles of Association, may only be brought to our shareholders for a vote upon a proposal by our management board that has been approved by our supervisory board.

Our anti-takeover provision may prevent a beneficial change of control.

We have adopted an anti-takeover measure pursuant to which our management board may, subject to supervisory board approval but without shareholder approval, issue (or grant the right to acquire) cumulative preferred shares. We may issue an amount of cumulative preferred shares up to 100% of our issued capital immediately prior to the issuance of such cumulative preferred shares. In such event, the cumulative preferred shares (or right to acquire cumulative preferred shares) will be issued to a separate, newly established foundation which will be structured to operate independently of us. Such a measure has the effect of making a takeover of us more difficult or less attractive and as a result, our shareholders may be unable to benefit from a change of control and realize any potential change of control premium which may materially and adversely affect the market price of our common shares.

The cumulative preferred shares will be issued to the foundation for their nominal value, of which only 25% will be due upon issuance. The voting rights of our shares are based on nominal value and as we expect our shares to trade substantially in excess of nominal value, cumulative preferred shares issued at nominal value can obtain significant voting power for a substantially reduced price and thus be used as a defensive measure. These cumulative preferred shares will have both a liquidation and dividend preference over our common shares and will accrue cash dividends at a fixed rate. The management board may issue these cumulative preferred shares to protect us from influences that do not serve our best interests and threaten to undermine our continuity, independence and identity. These influences may include a third party acquiring a significant percentage of our common shares, the announcement of a public offer for our common shares, other concentration of control over our common shares or any other form of pressure on us to alter our strategic policies. If the management board determines to issue the cumulative preferred shares to such a foundation, the foundation's articles of association will provide that it will act to serve the best interests of us, our associated business and all parties connected to us, by opposing any influences that conflict with these interests and threaten to undermine our continuity, independence and identity.

We are not obligated to and do not comply with all the best practice provisions of the Dutch Corporate Governance Code. This may affect your rights as a shareholder.

As a Dutch company we are subject to the Dutch Corporate Governance Code, or DCGC. The DCGC contains both principles and best practice provisions that regulate relations between the management board, the supervisory board and the shareholders (i.e., the general meeting of shareholders). The DCGC is based on a "comply or explain" principle. Accordingly, companies are required to disclose in their annual reports, filed in the Netherlands, whether they comply with the provisions of the DCGC. If they do not comply with those provisions (e.g., because of a conflicting Nasdaq requirement), the company is required to give the reasons for such non-compliance.

The DCGC applies to all Dutch companies listed on a government-recognized stock exchange, whether in the Netherlands or elsewhere, including Nasdaq. We do not comply with all the best practice provisions of the DCGC. For example, the DCGC states that all supervisory board members need to be independent (a term that is defined in the DCGC), with the exception of one. We have more than one supervisory director that is deemed not independent under the rule of the DCGC. For a complete list of these DCGC best practices that we do not comply with, see "Description of Share Capital and Articles of Association." This may affect your rights as a shareholder and you may not have the same level of protection as a shareholder in a Dutch company that fully complies with the DCGC.

Claims of U.S. civil liabilities may not be enforceable against us.

We are incorporated under the laws of the Netherlands, and our headquarters are located in Germany. Substantially all of our assets are located outside the United States. The majority of our managing directors and supervisory directors reside outside the United States. As a result, it may not be possible for investors to effect service of process within the United States upon such persons or to enforce against them or us in U.S. courts, including judgments predicated upon the civil liability provisions of the federal securities laws of the United States.

The United States and the Netherlands currently do not have a treaty providing for the reciprocal recognition and enforcement of judgments, other than arbitration awards, in civil and commercial matters. Consequently, a final judgment for payment given by a court in the United States, whether or not predicated solely upon U.S. securities laws, would not automatically be recognized or enforceable in the Netherlands. In order to obtain a judgment which is enforceable in the Netherlands, the party in whose favor a final and conclusive judgment of the U.S. court has been rendered will be required to file its claim with a court of competent jurisdiction in the Netherlands. Such party may submit to the Dutch court the final judgment rendered by the U.S. court. If and to the extent that the Dutch court finds that the jurisdiction of the U.S. court has been based on grounds which are internationally acceptable, that the proceedings before the U.S. court complied with principles of proper procedures, that recognition and/or enforcement of such judgment would not contravene the public policy of the Netherlands, and that recognition and/or enforcement is not irreconcilable with a decision of a Dutch court rendered between the same parties or with an earlier decision of a foreign court rendered between the same parties in a dispute that is about the same subject matter and that is based on the same cause, provided that earlier judgment can be recognized in the Netherlands, the court of the Netherlands will, in principle, give binding effect to the judgment of the U.S. court. Dutch courts may deny the recognition and enforcement of punitive damages or other awards on the basis that recognition and enforcement would contravene public policy of the Netherlands. Moreover, a Dutch court may reduce the amount of damages granted by a U.S. court and recognize damages only to the extent that they are necessary to compensate actual losses or damages. In addition, there is doubt as to whether a Dutch court would

impose civil liability on us, our managing directors or supervisory directors or certain experts named herein in an original action predicated solely upon the U.S. federal securities laws brought in a court of competent jurisdiction in the Netherlands against us or such directors or experts, respectively. Enforcement and recognition of judgments of U.S. courts in the Netherlands are solely governed by the provisions of the Dutch Civil Procedure Code.

The United States and Germany currently do not have a treaty providing for the reciprocal recognition and enforcement of judgments, other than arbitration awards, in civil and commercial matters. Consequently, a final judgment for payment given by a court in the United States, whether or not predicated solely upon U.S. securities laws, would not automatically be recognized or enforceable in Germany. German courts may deny the recognition and enforcement of a judgment rendered by a U.S. court if they consider the U.S. court not to be competent or the decision not in line with German public policy principles. For example, recognition of court decisions based on class actions brought in the United States typically raises public policy concerns and judgments awarding punitive damages are generally not enforceable in Germany.

In addition, actions brought in a German court against us, our managing directors or supervisory directors, our senior management and the experts named herein to enforce liabilities based on U.S. federal securities laws may be subject to certain restrictions. In particular, German courts generally do not award punitive damages. Litigation in Germany is also subject to rules of procedure that differ from the U.S. rules, including with respect to the taking and admissibility of evidence, the conduct of the proceedings and the allocation of costs. Proceedings in Germany would have to be conducted in the German language and all documents submitted to the court would, in principle, have to be translated into German. For these reasons, it may be difficult for a U.S. investor to bring an original action in a German court predicated upon the civil liability provisions of the U.S. federal securities laws against us, our managing directors or supervisory directors, our senior management and the experts named in this prospectus supplement.

Based on the lack of a treaty as described above, U.S. investors may not be able to enforce against us or managing directors or supervisory directors, officers or certain experts named herein who are residents of the Netherlands, Germany, or other countries other than the United States any judgments obtained in U.S. courts in civil and commercial matters, including judgments under the U.S. federal securities laws.

In the past, we had identified material weaknesses in our internal control over financial reporting. If the since-implemented internal controls fail to be effective, such failure could result in material misstatements in our financial statements, cause investors to lose confidence in our reported financial and other public information and have a negative effect on the trading price of our common shares.

Effective internal controls over financial reporting are necessary for us to provide reliable financial reports and, together with adequate disclosure controls and procedures, are designed to prevent fraud. Any failure to implement required new or improved controls, or difficulties encountered in their implementation could cause us to fail to meet our reporting obligations. Section 404 of the Sarbanes-Oxley Act of 2002 requires management of public companies to develop and implement internal controls over financial reporting and evaluate the effectiveness thereof. A material weakness is a deficiency or a combination of deficiencies in internal control over financial reporting such that there is a reasonable possibility that a material misstatement of our financial statements will not be prevented or detected on a timely basis. In connection with the preparation of our financial statements for the year ended December 31, 2013, we identified material weaknesses in our internal controls related to deficiencies in our design and operating effectiveness of internal controls, in our financial reporting processes and in our controls related to management's review of our financial results. Since the identification of the material weaknesses in internal controls over financial reporting, and no material weaknesses were identified in connection with the preparation of our financial statements for the year ended December 31, 2014. If the since-implemented internal controls fail to be effective in the future, it could result in material misstatements in our financial statements, impair our ability to raise revenue, result in the loss of investor confidence in the reliability of our financial statements and subject us to regulatory scrutiny and sanctions, which in turn could harm the market value of our common shares.

We will be required to disclose changes made in our internal controls and procedures and our management will be required to assess the effectiveness of these controls annually. However, for as long as we are an "emerging growth company" under the JOBS Act, our independent registered public accounting firm will not be required to attest to the effectiveness of our internal controls over financial reporting pursuant to Section 404. We could be an "emerging growth company" for a period of five years following the completion of our initial public offering (2019). An independent assessment of the effectiveness of our internal controls could detect problems that our

management's assessment might not. Undetected material weaknesses in our internal controls could lead to financial statement restatements and require us to incur the expense of remediation.

We may be classified as a "passive foreign investment company" (a "PFIC") in 2015 or any future years. U.S. investors may suffer adverse U.S. federal income tax consequences if we are a PFIC for any taxable year.

Under the Internal Revenue Code of 1986, as amended, we will be a PFIC for any taxable year in which, after the application of certain "look-through" rules with respect to subsidiaries, either (i) 75% or more of our gross income consists of "passive income," or (ii) 50% or more of the average quarterly value of our assets consist of assets that produce, or are held for the production of, "passive income." Passive income generally includes interest, dividends, rents, certain non-active royalties and capital gains. Based on certain estimates, including as to the relative values of our assets, we do not believe that we were a PFIC for our 2014 taxable year. However, there can be no assurance that the IRS will agree with this conclusion. In addition, whether we will be a PFIC in 2015 or any future years is uncertain because, among other things, (i) we currently own, and will own after the completion of this offering, a substantial amount of passive assets, including cash, and (ii) the valuation of our assets that generate non-passive income for PFIC purposes, including our intangible assets, is uncertain and may vary substantially over time. Accordingly, there can be no assurance that we will not be a PFIC for any taxable year.

If we are a PFIC for any taxable year during which a U.S. investor holds common shares, we generally would continue to be treated as a PFIC with respect to that U.S. investor for all succeeding years during which the U.S. investor holds common shares, even if we ceased to meet the threshold requirements for PFIC status. Such a U.S. investor may be subject to adverse tax consequences, including (i) the treatment of all or a portion of any gain on disposition as common income, (ii) the application of a deferred interest charge on such gain and the receipt of certain dividends and (iii) compliance with certain reporting requirements. We do not intend to provide the information that would enable investors to take a qualified electing fund ("QEF") election that could mitigate the adverse U.S. federal income tax consequences should we be classified as a PFIC.

USE OF PROCEEDS

We may issue and sell our common shares having aggregate sales proceeds of up to \$50.0 million from time to time. Because there is no minimum offering amount required as a condition to close this offering, the actual total public offering amount, commissions and proceeds to us, if any, are not determinable at this time.

As of June 30, 2015, we had cash and cash equivalents of €66.3 million. We anticipate that we will use our existing cash and cash equivalents and the net proceeds of this offering, if we issue and sell our common shares with maximum aggregate sales proceeds of \$50.0 million as specified in this prospectus supplement, primarily to fund research and development expenses for our clinical and preclinical research and development activities and for working capital, repayment of debt and general corporate purposes.

Our expected use of net proceeds from this offering represents our current intentions based upon our present plans and business condition. As of the date of this prospectus supplement, we cannot predict with certainty all of the particular uses for the net proceeds to be received upon the completion of this offering or the amounts that we will actually spend on the uses set forth above. The amounts and timing of our actual use of net proceeds will vary depending on numerous factors, including our ability to obtain additional financing, the relative success and cost of our research, preclinical and clinical development programs, including a change in our planned course of development or the termination of a clinical program necessitated by the results of data received from clinical trials, the amount and timing of additional revenues, if any, received from our collaborations with Amphivena and LLS and whether we enter into future collaborations. As a result, management will have broad discretion in the application of the net proceeds, and investors will be relying on our judgment regarding the application of the net proceeds of this offering. In addition, we might decide to postpone or not pursue other clinical trials or preclinical activities if the net proceeds from this offering and our other sources of cash are less than expected.

Based on our current cash and cash equivalents described above, we estimate that such funds will be sufficient to enable us to fund our operating expenses and capital expenditure requirements for at least until the third quarter of 2017. The net proceeds of this offering, if we issue and sell our common shares with maximum aggregate sales proceeds of \$50.0 million as specified in this prospectus supplement, would extend our financial reach, assuming that the plans for our clinical and preclinical activities remain unchanged. We have based these estimates on assumptions that may prove to be incorrect, and we could use our available capital resources sooner than we currently expect.

Pending their use, we plan to invest the net proceeds from this offering in short- and intermediate-term interest-bearing financial assets and certificates of deposit.

DIVIDEND POLICY

We have never paid or declared any cash dividends on our common shares, and we do not anticipate paying any cash dividends on our common shares in the foreseeable future. We intend to retain all available funds and any future earnings to fund the development and expansion of our business. Under Dutch law, we may only pay dividends if our shareholders' equity (*eigen vermogen*) exceeds the sum of the paid-up and called-up share capital plus the reserves required to be maintained by Dutch law or by our Articles of Association. Subject to such restrictions, any future determination to pay dividends will be at the discretion of our management board and requires approval of our supervisory board and will depend upon a number of factors, including our results of operations, financial condition, future prospects, contractual restrictions, restrictions imposed by applicable law and other factors our management board and supervisory board deem relevant.

DILUTION

If you invest in our common shares in this offering, your ownership interest will be diluted immediately to the extent of the difference between the price you pay in this offering and the net tangible book value per common share after this offering.

Our net tangible book value as of June 30, 2015 was \$67.5 million, or \$2.25 per common share, based on 29,934,168 common shares then outstanding. After giving effect to the assumed sale by us of our common shares in the aggregate amount of \$50.0 million at an assumed public offering price of \$6.04 per share (the last sale price of our common shares on September 29, 2015 as reported on The Nasdaq Global Market), less the estimated commissions and estimated offering expenses payable by us, our net tangible book value at June 30, 2015 would have been \$115.6 million, or \$3.03 per common share. This represents an immediate increase in net tangible book value of \$0.77 per share to existing shareholders and an immediate dilution of \$3.01 per share to investors in this offering. The following table illustrates this per share dilution. The as adjusted information is illustrative only and will adjust based on the actual price to the public, the actual number of shares sold and other terms of the offering determined at the time our common shares are sold pursuant to this prospectus supplement. The shares sold in this offering, if any, will be sold from time to time at various prices.

Assumed public offering price per share		\$ 6.04
Net tangible book value per share as of June 30, 2015	\$ 2.25	
Increase per share attributable to new investors purchasing shares in this offering	\$ 0.77	
As adjusted net tangible book value per share after giving effect to this offering		\$ 3.03
Dilution per share to new investors		\$ 3.01

The above discussion and table are based on our actual common shares outstanding as of June 30, 2015 and excludes:

- 1,329,142 of our common shares issuable upon the exercise of options outstanding as of June 30, 2015, at a weighted average exercise price of \$6.07 per common share;
- 2,380,600 common shares covered by awards available for issuance under our equity incentive plan as of June 30, 2015; and
- 106,250 common shares covered by warrants issued to Perceptive at an exercise price of \$8.80 per common share.

To the extent that outstanding options are exercised, you will experience further dilution. In addition, we may choose to raise additional capital due to market conditions or strategic considerations even if we believe we have sufficient funds for our current or future operating plans. To the extent that additional capital is raised through the sale of equity or convertible debt securities, the issuance of such securities may result in further dilution to our shareholders.

PRICE RANGE OF COMMON SHARES

The common shares of the Company are listed on the Nasdaq Global Market under the symbol "AFMD".

The following table sets forth the highest and lowest intraday sales prices for the common shares as reported by the Nasdaq Global Market for the periods indicated:

	Nasdaq Global Market			
Year ended December 31, 2015	\$ High		\$ Low	
September 2015	\$	10.62	\$	5.83
August 2015	\$	17.46	\$	7.95
July 2015	\$	24.20	\$	13.51
June 2015	\$	13.75	\$	10.52
May 2015	\$	10.47	\$	7.14
April 2015	\$	11.77	\$	5.85
Third Quarter	\$	24.20	\$	5.83
Second Quarter	\$	13.75	\$	5.85
First Quarter	\$	9.16	\$	5.16
Year ended December 31, 2014		\$ High \$ Low		\$ Low
Fourth Quarter	\$	8.30	\$	3.55
Third Quarter (beginning on September 12, 2014)	\$	7.00	\$	5.63

PLAN OF DISTRIBUTION

We have entered into a sales agreement with Cowen and Company, LLC, or Cowen, under which we may issue and sell from time to time up to \$50,000,000 of our common shares through Cowen as our sales agent. Sales of the common shares, if any, will be made at market prices by any method that is deemed to be an "at the market" offering as defined in Rule 415 under the Securities Act, including without limitation sales made through The Nasdaq Global Market, on any other existing trading market for the common shares or to or through a market maker. In addition, with our prior written consent, Cowen may also sell the common shares in negotiated transactions and Cowen may also purchase our common shares as principal.

Cowen will offer the common shares subject to the terms and conditions of the sales agreement on a daily basis or as otherwise agreed upon by us and Cowen. We will designate the maximum amount of common shares to be sold through Cowen on a daily basis or otherwise determine such maximum amount together with Cowen. Subject to the terms and conditions of the sales agreement, Cowen will use its commercially reasonable efforts consistent with its normal trading and sales practices and applicable state and federal laws, rules and regulations and the rules of the Nasdaq Stock Market, Inc. to sell on our behalf such common shares up to the amount specified to be sold by us. We may instruct Cowen not to sell common shares if the sales cannot be effected at or above the price designated by us in any such instruction. We or Cowen may suspend the offering of the common shares being made through Cowen under the sales agreement upon proper notice to the other party. We and Cowen each have the right, by giving written notice as specified in the sales agreement, to terminate the sales agreement in each party's sole discretion at any time.

Aggregate compensation payable to Cowen as sales agent shall be equal to 3% of the gross sales price of the shares sold through it pursuant to the sales agreement. Cowen will be reimbursed for up to \$50,000, in the aggregate, for its legal fees and expenses incurred in connection with sales of the common shares. In accordance with FINRA Rule 5110 these reimbursed fees and expenses are deemed sales compensation to Cowen in connection with this offering.

Remaining sales proceeds, after deducting any expenses payable by us and any transaction fees imposed by any governmental or self-regulatory organization in connection with the sales, will equal our net proceeds for the sale of such common shares.

Cowen will provide written confirmation to us following the close of trading on The Nasdaq Global Market, each day in which common shares are sold through it as sales agent under the sales agreement. Each confirmation will include the number of common shares sold through it as sales agent on that day, the net proceeds price per share payable by Cowen, the net proceeds to us and the compensation payable by us to Cowen.

We will report at least quarterly the number of common shares sold through Cowen under the sales agreement, the net proceeds to us and the compensation paid by us to Cowen in connection with the sales of common shares.

Settlement for sales of common shares will occur, unless the parties agree otherwise, on the third business day that is also a trading day following the date on which any sales were made in return for payment of the net proceeds to us. There is no arrangement for funds to be received in an escrow, trust or similar arrangement.

In connection with the sales of the common shares on our behalf, Cowen may be deemed to be an "underwriter" within the meaning of the Securities Act, and the compensation paid to Cowen may be deemed to be underwriting commissions or discounts. We have agreed in the sales agreement to provide indemnification and contribution to Cowen against certain liabilities, including liabilities under the Securities Act. As sales agent, Cowen will not engage in any transactions that stabilize our common shares.

We estimate that the total expenses of the offering payable by us, excluding commissions payable to Cowen under the sales agreement, will be approximately \$350,000.

LEGAL MATTERS

The validity of the common shares and certain other matters of Dutch law will be passed upon for us by De Brauw Blackstone Westbroek N.V. Certain matters of U.S. federal and New York State law will be passed upon for us by Davis Polk & Wardwell LLP, New York, New York. Cowen and Company, LLC is being represented in connection with this offering by Covington & Burling LLP, New York, New York.

EXPERTS

The consolidated financial statements of Affimed N.V. as of December 31, 2014 and 2013 and for each of the years in the three-year period ended December 31, 2014 have been included herein in reliance upon the report of KPMG AG Wirtschaftsprüfungsgesellschaft, Leipzig, Germany, independent registered public accounting firm, appearing elsewhere herein, and upon the authority of said firm as experts in accounting and auditing.

WHERE YOU CAN FIND MORE INFORMATION

We have filed with the U.S. Securities and Exchange Commission a registration statement (including amendments and exhibits to the registration statement) on Form F-3 under the Securities Act. Our SEC filings are available to the public over the Internet at the SEC's website at http://www.sec.gov. Copies of certain information filed by us with the SEC are also available on our website at http://www.affimed.com. Our website is not a part of this prospectus supplement and is not incorporated by reference in this prospectus supplement. You may also read and copy any document we file at the SEC's Public Reference Room, 100 F Street, N.E., Washington, D.C. 20549. Please call the SEC at 1-800-SEC-0330 for further information on the operation of the Public Reference Room.

This prospectus supplement is part of a registration statement we filed with the SEC. This prospectus supplement omits some information contained in the registration statement in accordance with SEC rules and regulations. You should review the information and exhibits in the registration statement for further information on us and our consolidated subsidiaries and the securities we are offering. Statements in this prospectus supplement concerning any document we filed as an exhibit to the registration statement or that we otherwise filed with the SEC are not intended to be comprehensive and are qualified by reference to these filings. You should review the complete document to evaluate these statements.

INCORPORATION BY REFERENCE

The SEC allows us to incorporate by reference information into this document. This means that we can disclose important information to you by referring you to another document filed separately with the SEC. The information incorporated by reference is considered to be a part of this document, except for any information superseded by information that is included directly in this prospectus supplement incorporated by reference subsequent to the date of this prospectus supplement.

We incorporate by reference the following documents or information that we have filed with the SEC:

- · Our 2014 Annual Report on Form 20-F for the fiscal year ended December 31, 2014;
- · Our Forms 6-K filed on May 21, 2015 and August 4, 2015; and
- · The description of our common shares contained in our registration statement on Form 8-A filed with the SEC on September 10, 2014, including any amendments or reports filed for the purpose of updating such description

All annual reports we file with the SEC pursuant to the Exchange Act on Form 20-F after the date of this prospectus supplement and prior to termination or expiration of this registration statement shall be deemed incorporated by reference into this prospectus supplement and to be part hereof from the date of filing of such documents. We may incorporate by reference any Form 6-K subsequently submitted to the SEC by identifying in such Form 6-K that it is being incorporated by reference into this prospectus supplement.

Documents incorporated by reference in this prospectus are available from us without charge upon written or oral request, excluding any exhibits to those documents that are not specifically incorporated by reference into those documents. You can obtain documents incorporated by reference in this document by requesting them from us in writing at Technologiepark, Im Neuenheimer Feld 582, 69120, Heidelberg, Germany or via telephone at (+49) 6221-65307-0.



Common Shares

Prospectus Supplement

Cowen and Company

, 2015

PART II - INFORMATION NOT REQUIRED IN PROSPECTUS

INDEMNIFICATION OF OFFICERS AND DIRECTORS

Our managing directors and supervisory directors have the benefit of the following indemnification provisions in our Articles of Association: Current and former managing directors and supervisory directors shall be reimbursed for:

- a) the reasonable costs of conducting a defense against a claim based on acts or failures to act in the exercise of their duties or any other duties currently or previously performed by them at our request;
- b) any damages or fines payable by them as a result of an act or failure to act as referred to under (a); and
- c) the reasonable costs of appearing in other legal proceedings in which they are involved as current or former managing director or supervisory director, with the exception of proceedings primarily aimed at pursuing a claim on their own behalf.

There shall be no entitlement to reimbursement as referred to above if and to the extent that:

- a) a Dutch court or, in the event of arbitration, an arbitrator has established in a final and conclusive decision that the act or failure to act of the person concerned can be characterized as willful, intentionally reckless or seriously culpable conduct, unless Dutch law provides otherwise or this would, in view of the circumstances of the case, be unacceptable according to standards of reasonableness and fairness; or
- b) the costs or financial loss of the person concerned are covered by an insurance and the insurer has paid out the costs or financial loss.

If and to the extent that it has been established by a Dutch court or, in the event of arbitration, an arbitrator in a final and conclusive decision that the person concerned is not entitled to reimbursement as referred to above, he shall immediately repay the amount reimbursed by us. We have also entered into indemnification agreements with each of our managing directors and supervisory directors.

EXHIBITS

The following documents are filed as part of this registration statement:

- 1.1* Form of Underwriting Agreement
- 1.2 Sales Agreement, dated as of October 1, 2015, between Affimed N.V. and Cowen and Company, LLC
- 4.1 Articles of Association of Affimed N.V. (incorporated by reference to exhibit 3.1 of the Affimed N.V. Registration Statement on Form F-1 (Registration No. 333-197097) filed with the Commission on September 17, 2014).
- 4.2 Form of Senior Indenture
- 4.3 Form of Subordinated Indenture
- 4.4* Form of Senior Note
- 4.5* Form of Subordinated Note
- 4.6* Form of Warrant Agreement
- 4.7* Form of Purchase Contract
- 4.8* Form of Unit Agreement
- 5.1 Opinion of De Brauw Blackstone Westbroek N.V.

- 5.2 Opinion of Davis Polk & Wardwell LLP
- 23.1 Consent of KPMG AG Wirtschaftsprüfungsgesellschaft, independent registered public accounting firm
- 23.2 Consent of De Brauw Blackstone Westbroek N.V. (included in Exhibit 5.1)
- 23.3 Consent of Davis Polk & Wardwell LLP (included in exhibit 5.2)
- 24.1 Powers of attorney (included on signature page to the registration statement)
- 25.1* Statement of Eligibility on Form T-1 for Senior Indenture
- 25.2* Statement of Eligibility on Form T-1 for Subordinated Indenture

^{*} To be filed, if necessary, by amendment.

UNDERTAKINGS

- (a) The undersigned registrant hereby undertakes:
 - (1) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:
 - (i) To include any prospectus required by section 10(a)(3) of the Securities Act of 1933;
 - (ii) To reflect in the prospectus any facts or events arising after the effective date of the registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Commission pursuant to Rule 424(b) (§ 230.424(b) of this chapter) if, in the aggregate, the changes in volume and price represent no more than 20% change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement.
 - (iii) To include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the registration statement;

Provided, however, That:

- (A) Paragraphs (a)(1)(i) and (a)(1)(ii) of this section do not apply if the registration statement is on Form S-8 (§ 239.16b of this chapter), and the information required to be included in a post-effective amendment by those paragraphs is contained in reports filed with or furnished to the Commission by the registrant pursuant to section 13 or section 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m or 78o(d)) that are incorporated by reference in the registration statement; and
- (B) Paragraphs (a)(1)(i), (a)(1)(ii) and (a)(1)(iii) of this section do not apply if the registration statement is on Form S-3 (§ 239.13 of this chapter) or Form F-3 (§ 239.33 of this chapter) and the information required to be included in a post-effective amendment by those paragraphs is contained in reports filed with or furnished to the Commission by the registrant pursuant to section 13 or section 15(d) of the Securities Exchange Act of 1934 that are incorporated by reference in the registration statement, or is contained in a form of prospectus filed pursuant to Rule 424(b) (§ 230.424(b) of this chapter) that is part of the registration statement.
- (C) Provided further, however, that paragraphs (a)(1)(i) and (a)(1)(ii) do not apply if the registration statement is for an offering of asset-backed securities on Form S-1 (§ 239.11 of this chapter) or Form S-3 (§ 239.13 of this chapter), and the information required to be included in a post-effective amendment is provided pursuant to Item 1100(c) of Regulation AB (§ 229.1100(c)).
- (2) That, for the purpose of determining any liability under the Securities Act of 1933, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.
- (3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.
- (4) To file a post-effective amendment to the registration statement to include any financial statements required by "Item 8.A. of Form 20-F" at the start of any delayed offering or throughout a continuous offering. Financial statements and information otherwise required by Section 10(a)(3) of the Act need not be furnished, provided that the registrant includes in the prospectus, by means of a post-effective amendment, financial statements required pursuant to this paragraph (a)(4) and other information necessary to ensure that all other information in the prospectus is at least as current as the date of those financial statements. Notwithstanding the foregoing, with respect to registration statements on Form F-3 (§ 239.33 of this chapter), a post-effective

amendment need not be filed to include financial statements and information required by Section 10(a)(3) of the Act or § 210.3-19 of this chapter if such financial statements and information are contained in periodic reports filed with or furnished to the Commission by the registrant pursuant to section 13 or section 15(d) of the Securities Exchange Act of 1934 that are incorporated by reference in the Form F-3.

- (5) That, for the purpose of determining liability under the Securities Act of 1933 to any purchaser:
- (A) Each prospectus filed by the registrant pursuant to Rule 424(b)(3) shall be deemed to be part of the registration statement as of the date the filed prospectus was deemed part of and included in the registration statement; and
- (B) Each prospectus required to be filed pursuant to Rule 424(b)(2), (b)(5), or (b)(7) as part of a registration statement in reliance on Rule 430B relating to an offering made pursuant to Rule 415(a)(1)(i), (vii), or (x) for the purpose of providing the information required by section 10(a) of the Securities Act of 1933 shall be deemed to be part of and included in the registration statement as of the earlier of the date such form of prospectus is first used after effectiveness or the date of the first contract of sale of securities in the offering described in the prospectus. As provided in Rule 430B, for liability purposes of the issuer and any person that is at that date an underwriter, such date shall be deemed to be a new effective date of the registration statement relating to the securities in the registration statement to which that prospectus relates, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof. *Provided, however*, that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of contract of sale prior to such effective date, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such effective date; or
- (6) That, for the purpose of determining liability of the registrant under the Securities Act of 1933 to any purchaser in the initial distribution of the securities:

The undersigned registrant undertakes that in a primary offering of securities of the undersigned registrant pursuant to this registration statement, regardless of the underwriting method used to sell the securities to the purchaser, if the securities are offered or sold to such purchaser by means of any of the following communications, the undersigned registrant will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:

- (i) Any preliminary prospectus or prospectus of the undersigned registrant relating to the offering required to be filed pursuant to Rule 424;
- (ii) Any free writing prospectus relating to the offering prepared by or on behalf of the undersigned registrant or used or referred to by the undersigned registrant;
- (iii) The portion of any other free writing prospectus relating to the offering containing material information about the undersigned registrant or its securities provided by or on behalf of the undersigned registrant; and
 - (iv) Any other communication that is an offer in the offering made by the undersigned registrant to the purchaser.
- (b) The undersigned registrant hereby undertakes that, for purposes of determining any liability under the Securities Act of 1933, each filing of the registrant's annual report pursuant to section 13(a) or section 15(d) of the Securities Exchange Act of 1934 (and, where applicable, each filing of an employee benefit plan's annual report pursuant to section 15(d) of the Securities Exchange Act of 1934) that is incorporated by reference in the registration statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.
- (c) Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers and controlling persons of the registrant pursuant to the foregoing provisions, or otherwise, the registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is

against public policy as expressed in the Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the registrant of expenses incurred or paid by a director, officer or controlling person of the registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Act and will be governed by the final adjudication of such issue.

- (d) The undersigned registrant hereby undertakes that:
- (1) For purposes of determining any liability under the Securities Act of 1933, the information omitted from the form of prospectus filed as part of this registration statement in reliance upon Rule 430A and contained in a form of prospectus filed by the registrant pursuant to Rule 424(b) (1) or (4) or 497(h) under the Securities Act shall be deemed to be part of this registration statement as of the time it was declared effective.
- (2) For the purpose of determining any liability under the Securities Act of 1933, each post-effective amendment that contains a form of prospectus shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.
- (e) The undersigned registrant hereby undertakes to file an application for the purpose of determining the eligibility of the trustee to act under subsection (a) of section 310 of the Trust Indenture Act ("Act") in accordance with the rules and regulations prescribed by the Commission under section 305(b)(2) of the Act.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form F-3 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in Heidelberg, Germany on October 1, 2015.

Affimed N.V.

By: /s/ Adi Hoess

Name: Adi Hoess

Title: Chief Executive Officer

By: /s/ Florian Fischer

Name: Florian Fischer Title: Chief Financial Officer

KNOW ALL PERSONS BY THESE PRESENTS, that each person whose signature appears below hereby constitutes and appoints Adi Hoess and Florian Fischer and each of them, individually, as his true and lawful attorneys-in-fact and agents, with full power of substitution and resubstitution, for him and in his name, place and stead in any and all capacities, in connection with this registration statement, including to sign in the name and on behalf of the undersigned, this registration statement and any and all amendments thereto, including post-effective amendments and registrations filed pursuant to Rule 462 under the U.S. Securities Act of 1933, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the U.S. Securities and Exchange Commission, granting unto such attorneys-in-fact and agents full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents, or his substitute, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act of 1933, as amended, this registration statement has been signed by the following persons on October 1, 2015 in the capacities indicated:

NAME	TITLE
/s/ Adi Hoess	Chief Executive Officer
Adi Hoess	(principal executive officer)
/s/ Florian Fischer	Chief Financial Officer (principal financial officer
Florian Fischer	and principal accounting officer)
/s/ Thomas Hecht	
Thomas Hecht	Director
/s/ Ulrich Grau	
Ulrich Grau	Director
/s/ Berndt Modig	
Berndt Modig	Director
/s/ Richard B. Stead	
Richard B. Stead	Director
	II-6

/s/ Ferdinand Verdonck	
Ferdinand Verdonck	_
/s/ Colleen A. DeVries	
Colleen A. DeVries SVP of National Corporate Research, Ltd.	- Authorized Repre

Director

Authorized Representative in the United States

EXHIBIT INDEX

The following documents are filed as part of this registration statement:

- 1.1* Form of Underwriting Agreement
- 1.2 Sales Agreement, dated as of October 1, 2015, between Affimed N.V. and Cowen and Company, LLC
- 4.1 Articles of Association of Affimed N.V. (incorporated by reference to exhibit 3.1 of the Affimed N.V. Registration Statement on Form F-1 (Registration No. 333-197097) filed with the Commission on September 17, 2014).
- 4.2 Form of Senior Indenture
- 4.3 Form of Subordinated Indenture
- 4.4* Form of Senior Note
- 4.5* Form of Subordinated Note
- 4.6* Form of Warrant Agreement
- 4.7* Form of Purchase Contract
- 4.8* Form of Unit Agreement
- 5.1 Opinion of De Brauw Blackstone Westbroek N.V.
- 5.2 Opinion of Davis Polk & Wardwell LLP
- 23.1 Consent of KPMG AG Wirtschaftsprüfungsgesellschaft, independent registered public accounting firm
- 23.2 Consent of De Brauw Blackstone Westbroek N.V. (included in Exhibit 5.1)
- 23.3 Consent of Davis Polk & Wardwell LLP (included in exhibit 5.2)
- 24.1 Powers of attorney (included on signature page to the registration statement)
- 25.1* Statement of Eligibility on Form T-1 for Senior Indenture
- 25.2* Statement of Eligibility on Form T-1 for Subordinated Indenture

^{*} To be filed, if necessary, by amendment.

AFFIMED N.V.

\$50,000,000

COMMON SHARES

SALES AGREEMENT

, 2015

Cowen and Company, LLC 599 Lexington Avenue New York, NY 10022

Ladies and Gentlemen:

Affimed N.V. (the "Company"), confirms its agreement (this "Agreement") with Cowen and Company, LLC ("Cowen"), as follows:

1. <u>Issuance and Sale of Shares</u>. The Company agrees that, from time to time during the term of this Agreement, on the terms and subject to the conditions set forth herein, it may issue and sell through Cowen, acting as agent and/or principal, the Company's common shares, nominal value €0.01 per share (the "<u>Common Shares</u>"), having an aggregate offering price of up to \$50,000,000. Notwithstanding anything to the contrary contained herein, the parties hereto agree that compliance with the limitation set forth in this <u>Section 1</u> on the number of Common Shares issued and sold under this Agreement shall be the sole responsibility of the Company, and Cowen shall have no obligation in connection with such compliance. The issuance and sale of Common Shares through Cowen will be effected pursuant to the Registration Statement (as defined below) filed by the Company and declared effective by the Securities and Exchange Commission (the "<u>Commission</u>"), although nothing in this Agreement shall be construed as requiring the Company to use the Registration Statement (as defined below) to issue the Common Shares.

The Company has filed, in accordance with the provisions of the Securities Act of 1933, as amended, and the rules and regulations thereunder (collectively, the "Securities Act"), with the Commission a registration statement on Form F-3, including a base prospectus, relating to certain securities, including the Common Shares, to be issued from time to time by the Company, and which incorporates by reference documents that the Company has filed or will file in accordance with the provisions of the Securities Exchange Act of 1934, as amended, and the rules and regulations thereunder (collectively, the "Exchange Act"). The Company has prepared a prospectus supplement specifically relating to the Common Shares (the "Prospectus Supplement") to the base prospectus included as part of such registration statement. The Company has furnished to Cowen, for use by Cowen, copies of the prospectus included as part of such registration statement, as supplemented by the Prospectus Supplement, relating to the Common Shares. Except where the context otherwise requires, such registration statement, as amended when it became effective, including all documents filed as part thereof or incorporated by reference therein, and including any information contained in a Prospectus (as

defined below) subsequently filed with the Commission pursuant to Rule 424(b) under the Securities Act or deemed to be a part of such registration statement pursuant to Rule 430B or 462(b) of the Securities Act, is herein called the "Registration Statement." The base prospectus, including all documents incorporated therein by reference, included in the Registration Statement, as it may be supplemented by the Prospectus Supplement, in the form in which such prospectus and/or Prospectus Supplement have most recently been filed by the Company with the Commission pursuant to Rule 424(b) under the Securities Act, together with any "issuer free writing prospectus," as defined in Rule 433 of the Securities Act ("Rule 433"), relating to the Common Shares that (i) is required to be filed with the Commission by the Company or (ii) is exempt from filing pursuant to Rule 433(d)(5)(i), in each case in the form filed or required to be filed with the Commission or, if not required to be filed, in the form retained in the Company's records pursuant to Rule 433(g), is herein called the "Prospectus." Any reference herein to the Registration Statement, the Prospectus or any amendment or supplement thereto shall be deemed to refer to and include the documents incorporated by reference therein, and any reference herein to the terms "amend," "amendment" or "supplement" with respect to the Registration Statement or the Prospectus shall be deemed to refer to and include the filing after the execution hereof of any document with the Commission deemed to be incorporated by reference therein. For purposes of this Agreement, all references to the Registration Statement, the Prospectus or to any amendment or supplement thereto shall be deemed to include any copy filed with the Commission pursuant to either the Electronic Data Gathering Analysis and Retrieval System or Interactive Data Electronic Applications (collectively "IDEA").

2. Placements. Each time that the Company wishes to issue and sell the Common Shares hereunder (each, a "Placement"), it will notify Cowen by email notice (or other method mutually agreed to in writing by the parties) (a "Placement Notice") containing the parameters in accordance with which it desires the Common Shares to be sold, which shall at a minimum include the number of Common Shares to be issued (the "Placement Shares"), the time period during which sales are requested to be made, any limitation on the number of Placement Shares that may be sold in any one Trading Day (as defined in Section 3) and any minimum price below which sales may not be made, a form of which containing such minimum sales parameters necessary is attached hereto as Schedule 1. The Placement Notice shall originate from any of the individuals from the Company set forth on Schedule 2 (with a copy to each of the other individuals from the Company listed on such schedule), and shall be addressed to each of the individuals from Cowen set forth on Schedule 2, as such Schedule 2 may be amended in writing from time to time. The Placement Notice shall be immediately effective upon receipt by Cowen unless and until (i) in accordance with the notice requirements set forth in Section 4, Cowen declines to accept the terms contained therein for any reason, in its sole discretion, (ii) the entire amount of the Placement Shares thereunder have been sold, (iii) in accordance with the notice requirements set forth in Section 4, the Company suspends or terminates the Placement Notice for any reason, in its sole discretion, (iv) the Company issues a subsequent Placement Notice with parameters superseding those on the earlier dated Placement Notice, or (v) the Agreement has been terminated under the provisions of Section 11. The amount of any discount, commission or other compensation to be paid by the Company to Cowen in connection with the sale of the Placement Shares shall be calculated in accordance with the terms set forth in Schedule 3. It is expr

until the Company delivers a Placement Notice to Cowen and Cowen does not decline such Placement Notice pursuant to the terms set forth above, and then only upon the terms specified therein and herein. In the event of a conflict between the terms of this Agreement and the terms of a Placement Notice, the terms of the Placement Notice will control.

- Sale of Placement Shares by Cowen. (a) Subject to the terms and conditions herein set forth, upon the Company's issuance of a Placement Notice, and unless the sale of the Placement Shares described therein has been declined, suspended, or otherwise terminated in accordance with the terms of this Agreement, Cowen, for the period specified in the Placement Notice, will use its commercially reasonable efforts consistent with its normal trading and sales practices and applicable state and federal laws, rules and regulations and the rules of the Nasdaq Stock Market, Inc. ("Nasdaq") to sell such Placement Shares up to the amount specified in such Placement Notice, and otherwise in accordance with the terms of such Placement Notice. Cowen will provide written confirmation to the Company (including by email correspondence to each of the individuals of the Company set forth on Schedule 2, if receipt of such correspondence is actually acknowledged by any of the individuals to whom the notice is sent, other than via auto-reply) no later than the opening of the Trading Day (as defined below) immediately following the Trading Day on which it has made sales of Placement Shares hereunder setting forth (i) the number of Placement Shares sold on such day, (ii) the compensation payable by the Company to Cowen pursuant to Section 2 with respect to such sales, (iii) the Net Proceeds (as defined below) payable to the Company in total and (iv) the Net Proceeds per Placement Share payable by Cowen, with an itemization of the deductions made by Cowen (as set forth in Section 5(a)) from the gross proceeds that it receives from such sales. Subject to the terms of a Placement Notice, Cowen may sell Placement Shares by any method permitted by law deemed to be an "at the market" offering as defined in Rule 415 of the Securities Act, including without limitation sales made through Nasdaq, on any other existing trading market for the Common Shares or to or through a market maker. If expressly authorized by the Company in a Placement Notice, Cowen may also sell Placement Shares in negotiated transactions. Cowen shall not purchase Placement Shares for its own account as principal unless expressly authorized to do so by the Company in a Placement Notice. The Company acknowledges and agrees that (i) there can be no assurance that Cowen will be successful in selling Placement Shares, and (ii) Cowen will incur no liability or obligation to the Company or any other person or entity if it does not sell Placement Shares for any reason other than a failure by Cowen to use its commercially reasonable efforts consistent with its normal trading and sales practices to sell such Placement Shares as required under this Section 3. For the purposes hereof, "Trading Day" means any day on which the Company's Common Shares are purchased and sold on the principal market on which the Common Shares are listed or
- (b) During the term of this Agreement, neither Cowen nor any of its affiliates or subsidiaries shall engage in any market-making, bidding, stabilization or other trading activity with regard to the Company's Common Shares or related derivative securities if such activity would be prohibited under Regulation M or other antimanipulation rules under the Securities Act.
 - 4. <u>Suspension of Sales</u>.

- (a) The Company or Cowen may, upon notice to the other party in writing (including by email correspondence to each of the individuals of the other party set forth on Schedule 2, if receipt of such correspondence is actually acknowledged by any of the individuals to whom the notice is sent, other than via auto-reply) or by telephone (confirmed immediately by verifiable facsimile transmission or email correspondence to each of the individuals of the other party set forth on Schedule 2), suspend any sale of Placement Shares; provided, however, that such suspension shall not affect or impair either party's obligations with respect to any Placement Shares sold hereunder prior to the receipt of such notice. Each of the Parties agrees that no such notice under this Section 4 shall be effective against the other unless it is made to one of the individuals named on Schedule 2 hereto, as such schedule may be amended from time to time.
- (b) Notwithstanding any other provision of this Agreement, during any period in which the Company is in possession of material non-public information, the Company and Cowen agree that (i) no sale of Placement Shares will take place, (ii) the Company shall not request the sale of any Placement Shares, and (iii) Cowen shall not be obligated to sell or offer to sell any Placement Shares.
- (c) If either Cowen or the Company has reason to believe that the exemptive provisions set forth in Rule 101(c)(1) of Regulation M under the Exchange Act are not satisfied with respect to the Common Shares, it shall promptly notify the other party, and Cowen may, at its sole discretion, suspend sales of the Placement Shares under this Agreement. Cowen shall calculate on a weekly basis the average daily trading volume (as defined by Rule 100 of Regulation M under the Exchange Act) of the Common Shares.

5. <u>Settlement.</u>

- (a) <u>Settlement of Placement Shares</u>. Unless otherwise specified in the applicable Placement Notice, settlement for sales of Placement Shares will occur on the third (3rd) Trading Day (or such earlier day as is industry practice for regular-way trading) following the date on which such sales are made (each, a "<u>Settlement Date</u>" and the first such settlement date, the "<u>First Delivery Date</u>"). The amount of proceeds to be delivered to the Company on a Settlement Date against receipt of the Placement Shares sold (the "<u>Net Proceeds</u>") will be equal to the aggregate sales price received by Cowen at which such Placement Shares were sold, after deduction for (i) Cowen's commission, discount or other compensation for such sales payable by the Company pursuant to <u>Section 2</u> hereof, (ii) any other amounts due and payable by the Company to Cowen hereunder pursuant to <u>Section 7(g)</u> (Expenses) hereof, less any reimbursements payable by Cowen to the Company herewith, and (iii) any transaction fees imposed by any governmental or self-regulatory organization in respect of such sales.
- (b) <u>Delivery of Placement Shares</u>. Following receipt of the Net Proceeds by the Company on or before each Settlement Date, the Company will on the Settlement Date execute a Deed of Issue pursuant to which the Placement Shares are issued and will cause its transfer agent to electronically transfer the Placement Shares being sold by crediting Cowen's or its designee's account (provided Cowen shall have given the Company written notice of such designee at least one (1) Trading Day prior to the Settlement Date) at The Depository Trust Company through its Deposit and Withdrawal at Custodian System or by such other means of delivery as may be mutually agreed upon by the parties hereto which in all cases shall be freely tradeable,

transferable, registered shares in good deliverable form. On each Settlement Date, Cowen will deliver the related Net Proceeds in same day funds to an account designated by the Company on, or prior to, the Settlement Date. Cowen will be responsible for providing DWAC instructions or instructions for delivery by other means with regard to the transfer of Placement Shares being sold. The Company agrees that if the Company, or its transfer agent (if applicable), defaults in its obligation to deliver duly authorized Placement Shares on a Settlement Date through no fault of Cowen, the Company agrees that in addition to and in no way limiting the rights and obligations set forth in Section 9(a) (Indemnification and Contribution) hereto, it will (i) hold Cowen harmless against any loss, claim, damage, or reasonable documented expense (including reasonable documented legal fees and expenses), as incurred, arising out of or in connection with such default by the Company and (ii) pay to Cowen (without duplication) any commission, discount, or other compensation to which it would otherwise have been entitled absent such default.

- 6. Representations and Warranties of the Company. Except as disclosed in the Registration Statement, the Prospectus or the Prospectus Supplement, the Company represents and warrants to, and agrees with, Cowen, that as of the date of this Agreement and as of each Applicable Time (as defined in Section 20 (a)):
- (a) <u>Compliance with Registration Requirements</u>. The Registration Statement has become effective under the Securities Act. The Company has complied, to the Commission's satisfaction, with all requests of the Commission for additional or supplemental information, if any. No stop order suspending the effectiveness of the Registration Statement is in effect and, to the knowledge of the Company, no proceedings for such purpose have been instituted, are pending or are contemplated or threatened by the Commission. At the time the Company's Annual Report on Form 20-F for the year ended 2014 (the "<u>Annual Report</u>") was filed with the Commission, or, if later, at the time the Registration Statement was originally filed with the Commission, the Company met the then-applicable requirements for use of Form F-3 under the Securities Act.
- (b) <u>Disclosure</u>. The Prospectus when filed complied in all material respects with the Securities Act and, if filed by electronic transmission pursuant to IDEA, was identical (except as may be permitted by Regulation S T under the Securities Act) to the copy thereof delivered to Cowen for use in connection with the offer and sale of the Common Shares. Each of the Registration Statement and any post-effective amendment thereto, at the time it became or becomes effective, complied and will comply in all material respects with the Securities Act and did not and will not contain any untrue statement of a material fact or omit to state a material fact required to be stated therein or necessary to make the statements therein not misleading. The Prospectus (including any Prospectus wrapper), as of its date, did not, and as of each of the Settlement Dates, will not, contain any untrue statement of a material fact or omit to state a material fact necessary in order to make the statements therein, in the light of the circumstances under which they were made, not misleading. The representations and warranties set forth in the two immediately preceding sentences do not apply to statements in or omissions from the Registration Statement or any post-effective amendment thereto, or the Prospectus, or any amendments or supplements thereto, made in reliance upon and in conformity with written information relating Cowen furnished to the Company in writing by Cowen expressly for use therein, it being understood and agreed that the only such information consists of the Agent's

Information. There are no contracts or other documents required to be described in the Prospectus or to be filed as an exhibit to the Registration Statement which have not been described or filed as required.

- (c) Offering Materials Furnished to Cowen. The Company has delivered to Cowen one complete copy of the Registration Statement and a copy of each consent and certificate of experts filed as a part thereof.
- (d) Free Writing Prospectuses; Not an Ineligible Issuer. As of the determination date referenced in Rule 164(h) under the Securities Act, the Company was not, is not or will not be (as applicable) an "ineligible issuer" in connection with the offering of the Common Shares pursuant to Rules 164, 405 and 433 under the Securities Act. Each free writing prospectus that the Company is required to file pursuant to Rule 433(d) under the Securities Act has been, or will be, filed with the Commission in accordance with the requirements of the Securities Act. Each free writing prospectus that the Company has filed, or is required to file, pursuant to Rule 433(d) under the Securities Act or that was prepared by or on behalf of or used or referred to by the Company complies or will comply in all material respects with the requirements of Rule 433 under the Securities Act, including timely filing with the Commission or retention where required and legending, and each such free writing prospectus, as of its issue date and at all subsequent times through the completion of the public offer and sale of the Common Shares did not, does not and will not include any information that conflicted, conflicts or will conflict with the information contained in the Registration Statement or the Prospectus and not superseded or modified. Except for the free writing prospectuses, if any, identified in Schedule 5, the Company has not prepared, used or referred to, and will not, without your prior written consent, prepare, use or refer to, any free writing prospectus.
- (e) <u>Distribution of Offering Material By the Company</u>. Prior to the completion of Cowen's distribution of the Common Shares, the Company has not distributed and will not distribute any offering material in connection with the offering and sale of the Common Shares other than the Registration Statement, the Prospectus or any free writing prospectus reviewed and consented to by Cowen and the free writing prospectuses, if any, identified on <u>Schedule 5</u> hereto.
- (f) The Sales Agreement. This Agreement has been duly authorized, executed and delivered by, and is a valid and binding agreement of, the Company, enforceable against the Company in accordance with its terms, except as rights to indemnification hereunder may be limited by applicable law and except as the enforcement hereof may be limited by bankruptcy, insolvency, reorganization, moratorium or other similar laws relating to or affecting the rights and remedies of creditors or by general equitable principles.
- (g) <u>Authorization of the Placement Shares</u>. The Placement Shares to be sold by Cowen, acting as agent and/or principal for the Company, have been duly authorized for issuance and sale pursuant to this Agreement and, when issued and delivered by the Company against payment therefor pursuant to this Agreement, will be duly authorized, validly issued, fully paid and nonassessable. The issuance and sale of the Placement Shares is not subject to any preemptive rights, rights of first refusal or other similar rights to subscribe for or purchase the Placement Shares which have not been duly excluded, waived or satisfied.

- (h) No Applicable Registration or Other Similar Rights. Except as described in the Registration Statement and the Prospectus, there are no persons with registration or other similar rights to have any equity or debt securities registered for sale under the Registration Statement or included in the offering contemplated by this Agreement, except for such rights as have been duly withdrawn or waived.
- (i) No Material Adverse Change. Except as otherwise disclosed in the Registration Statement and the Prospectus, subsequent to the respective dates as of which information is given in the Registration Statement and the Prospectus: (i) there has been no material adverse change, or any development that could reasonably be expected to result in a material adverse change, in the condition, financial or otherwise, or in the earnings, business, properties, operations, assets, liabilities or prospects, whether or not arising from transactions in the ordinary course of business, of the Company and its subsidiaries, considered as one entity (any such change being referred to herein as a "Material Adverse Change"); (ii) the Company and its subsidiaries, considered as one entity, have not incurred any material liability or obligation, indirect, direct or contingent, including without limitation any losses or interference with its business from fire, explosion, flood, earthquakes, accident or other calamity, whether or not covered by insurance, or from any strike, labor dispute or court or governmental action, order or decree, that are material, individually or in the aggregate, to the Company and its subsidiaries, considered as one entity, or have entered into any material transactions not in the ordinary course of business; and (iii) there has not been any material decrease in the capital stock or any material increase in any short-term or long-term indebtedness of the Company or its subsidiaries and there has been no dividend or distribution of any kind declared, paid or made by the Company or, except for dividends paid to the Company or other subsidiaries, by any of the Company's subsidiaries on any class of capital stock, or any repurchase or redemption by the Company or any of its subsidiaries of any class of capital stock.
- (j) <u>Independent Accountants</u>. KPMG AG Wirtschaftsprüfungsgesellschaft, which has expressed its opinion with respect to the financial statements (which term as used in this Agreement includes the related notes thereto) filed with the Commission or incorporated by reference as a part of the Registration Statement and the Prospectus, is (i) an independent registered public accounting firm as required by the Securities Act and the rules of the Public Company Accounting Oversight Board ("<u>PCAOB</u>"), (ii) in compliance with the applicable requirements relating to the qualification of accountants under Rule 2-01 of Regulation S-X under the Securities Act and (iii) a registered public accounting firm as defined by the PCAOB whose registration has not been suspended or revoked and who has not requested such registration to be withdrawn.
- (k) <u>Financial Statements</u>. The financial statements filed with the Commission as a part of or incorporated within the Registration Statement and the Prospectus present fairly, in all material respects, the consolidated financial position of the Company and its subsidiaries as of the dates indicated and the results of their operations, changes in shareholders' equity and cash flows for the periods specified. Such financial statements have been prepared in conformity with International Financial Reporting Standards ("<u>IFRS</u>") as issued by the International Accounting Standards Board ("<u>IASB</u>") applied on a consistent basis throughout the periods involved, except as may be expressly stated in the related notes thereto or as otherwise disclosed therein, and, in the case of audited, interim financial statements, subject to normal year-end audit adjustments

and the exclusion of certain footnotes. No other financial statements or supporting schedules are required to be included in or incorporated in the Registration Statement or the Prospectus. The financial data set forth in or incorporated in each of the Registration Statement and the Prospectus under the caption "Ratio of Earnings to Fixed Charges" present fairly, in all material respects, the information set forth therein on a basis consistent with that of the audited financial statements contained in, incorporated or deemed to be incorporated in the Registration Statement and the Prospectus. All disclosures contained in the Registration Statement, the Prospectus and any free writing prospectus that constitute non GAAP financial measures (as defined by the rules and regulations under the Exchange Act) comply with Regulation G under the Exchange Act and Item 10 of Regulation S-K under the Securities Act, as applicable. To the Company's knowledge, no person who has been suspended or barred from being associated with a registered public accounting firm, or who has failed to comply with any sanction pursuant to Rule 5300 promulgated by the PCAOB, has participated in or otherwise aided the preparation of, or audited, the financial statements, supporting schedules or other financial data filed with the Commission as a part of the Registration Statement and the Prospectus.

(1) <u>Incorporation and Good Standing of the Company and its Subsidiaries</u>. The Company has been duly incorporated and is existing under the laws of the jurisdiction of its organization and has the corporate power and authority to own, lease and operate its properties and to conduct its business in accordance with its stated objectives in the articles of association as described in the Registration Statement and the Prospectus and to enter into and perform its obligations under this Agreement. The Company is duly qualified as a foreign corporation to transact business and is in good standing (where such concept exists) in each other jurisdiction in which such qualification is required, whether by reason of the ownership or leasing of property or the conduct of business. Each of the Company's "subsidiaries" (for purposes of this Agreement, as defined in Rule 405 under the Securities Act) has been duly incorporated or organized, as the case may be, and is validly existing as a corporation, partnership or limited liability company, as applicable, in good standing (where such concept exists) under the laws of the jurisdiction of its incorporation or organization and has the power and authority (corporate or other) to own, lease and operate its properties and to conduct its business as described in the Registration Statement and the Prospectus. Each of the Company's subsidiaries is duly qualified as a foreign corporation, partnership or limited liability company, as applicable, to transact business and is in good standing in each jurisdiction in which such qualification is required, whether by reason of the ownership or leasing of property or the conduct of business, except where the failure to be so qualified or in good standing (where such concept exists) could not, individually or in the aggregate, result in a material adverse effect on the condition (financial or other), earnings, business, properties, operations, assets, liabilities or prospects of the Company and its subsidiaries, considered as one entity (a "Material Adverse Effect"). All of the issued and outstanding capital stock or other equity or ownership interests of each of the Company's subsidiaries has been duly authorized and validly issued, is fully paid and nonassessable and is owned by the Company, directly or through subsidiaries, free and clear of any security interest, mortgage, pledge, lien, encumbrance or adverse claim, except for the pledge of the 100 percent ownership interest in AbCheck s.r.o., a limited liability company duly incorporated and operating under the laws of the Czech Republic, created in favor of Perceptive Credit Opportunities Fund, LP, existing under the laws of Delaware. The Company does not own or control, directly or indirectly, any corporation, association or other entity other than the subsidiaries listed in or included as an exhibit to the Registration Statement.

- (m) <u>Capitalization and Other Share Capital Matters</u>. The authorized, issued and outstanding share capital of the Company is as set forth in the Registration Statement and the Prospectus (other than for subsequent issuances, if any, pursuant to equity compensation plans or arrangements, or upon the exercise of outstanding phantom equity, rights to receive shares, options or conversion rights, in each case described in the Registration Statement and the Prospectus.). The share capital of the Company, including the Common Shares, conforms in all material respects to each description thereof contained in the Prospectus. All of the issued and outstanding Common Shares have been (except that all shares that are or may be issued pursuant to any equity compensation plan or arrangement, when vested or settled in accordance with the respective terms thereof, or that are issued upon the exercise of option or conversion rights, will be) duly authorized and validly issued, are fully paid and nonassessable and have been issued in compliance with all applicable securities laws. None of the outstanding Common Shares was issued in violation of any preemptive rights, rights of first refusal or other similar rights to subscribe for or purchase securities of the Company. There are no authorized or outstanding phantom equity, rights to receive shares, options, conversion rights, warrants, preemptive rights, rights of first refusal or other rights to purchase, or equity or debt securities convertible into or exchangeable or exercisable for or that can be settled in, any share capital of the Company or any of its subsidiaries other than those described in the Registration Statement and the Prospectus. The descriptions of the Company's equity compensation plans or arrangements, and the phantom equity, rights to receive shares, options or other rights granted thereunder, set forth in the Registration Statement and the Prospectus accurately and fairly presents the information required to be shown with respect to such plans, arrangement
- (n) Non-Contravention of Existing Instruments; No Further Authorizations or Approvals Required. Neither the Company nor any of its subsidiaries is in violation of its articles of association or similar organizational documents, or is in default (or, with the giving of notice or lapse of time, would be in default) ("Default") under any indenture, loan, credit agreement, note, lease, license agreement, contract, franchise or other instrument (including, without limitation, any pledge agreement, security agreement, mortgage or other instrument or agreement evidencing, guaranteeing, securing or relating to indebtedness) to which the Company or any of its subsidiaries is a party or by which it or any of them may be bound, or to which any of their respective properties or assets are subject (each, an "Existing Instrument"), except for such Defaults as would not be reasonably expected, individually or in the aggregate, to have a Material Adverse Effect. The Company's execution, delivery and performance of this Agreement, consummation of the transactions contemplated hereby and by the Registration Statement and the Prospectus and the issuance and sale of the Common Shares (including the use of proceeds from the sale of the Common Shares as described in the Registration Statement and the Prospectus under the caption "Use of Proceeds") (i) have been duly authorized by all necessary corporate action and will not result in any violation of the provisions of the articles of association or by laws, partnership agreement or operating agreement or similar organizational documents, as applicable, of the Company or any subsidiary (ii) will not conflict with or constitute a breach of, or Default or a Debt Repayment Triggering Event (as defined below) under, or result in the creation or imposition of any lien, charge or encumbrance upon any property or assets of the Company or any of its subsidiaries pursuant to, or require the consent of any other party to, any Existing Instrument and (iii) will not result in any violation of any

individually or in the aggregate, to have a Material Adverse Effect. No consent, approval, authorization or other order of, or registration or filing with, any court or other governmental or regulatory authority or agency, is required for, or in connection with, the Company's execution, delivery and performance of this Agreement and consummation of the transactions contemplated hereby and by the Registration Statement and the Prospectus, except such as have been obtained or made by the Company and are in full force and effect under the Securities Act and such as may be required under applicable state securities or blue sky laws or the rules of the Financial Industry Regulatory Authority, Inc. ("FINRA"). As used herein, a "Debt Repayment Triggering Event" means any event or condition which gives, or with the giving of notice or lapse of time would give, the holder of any note, debenture or other evidence of indebtedness (or any person acting on such holder's behalf) the right to require the repurchase, redemption or repayment of all or a portion of such indebtedness by the Company or any of its subsidiaries.

- (o) No Material Actions or Proceedings. There is no action, suit, proceeding, inquiry or investigation brought by or before any governmental entity now pending or, to the knowledge of the Company, threatened, against or affecting the Company or any of its subsidiaries, which could reasonably be expected, individually or in the aggregate, to have a Material Adverse Effect or materially and adversely affect the consummation of the transactions contemplated by this Agreement or the performance by the Company of its obligations hereunder; and the aggregate of all pending legal or governmental proceedings to which the Company or any such subsidiary is a party or of which any of their respective properties or assets is the subject, including ordinary routine litigation incidental to the business, if determined adversely to the Company, could not reasonably be expected to have a Material Adverse Effect. There is no material labor dispute with the employees of the Company or any of its subsidiaries, or, to the knowledge of the Company, threatened against the Company or any of its subsidiaries, which could reasonably be expected to have a Material Adverse Effect.
- (p) <u>All Necessary Permits</u>, <u>etc</u>. The Company and its subsidiaries possess such valid and current certificates, authorizations or permits required by state, federal or foreign regulatory agencies or bodies to conduct their respective businesses as currently conducted and as described in the Registration Statement or the Prospectus ("<u>Permits</u>") except where the failure to possess any such certificate, authorization or permit would not reasonably be expected to have a Material Adverse Effect. Neither the Company nor any of its subsidiaries is in violation of, or in default under, any of the Permits or has received any notice of proceedings relating to the revocation or modification of, or noncompliance with, any such certificate, authorization or permit, except where such revocation or modification would not, individually or in the aggregate, reasonably be expected to a have a Material Adverse Effect.
- (q) <u>Tax Law Compliance</u>. The Company and its subsidiaries have filed all necessary federal, state and foreign income and franchise tax returns or have properly requested extensions thereof and have paid all taxes required to be paid by any of them and, if due and payable, any related or similar assessment, fine or penalty levied against any of them except (i) as may be being contested in good faith and by appropriate proceedings or (ii) where the failure to file or pay could not, individually or in the aggregate, have a Material Adverse Effect on the Company and its subsidiaries, taken as a whole. The Company has made adequate charges, accruals and reserves in the applicable financial statements referred to in Section 1(j) above in respect of all federal, state and foreign income and franchise taxes for all periods as to which the tax liability

of the Company or any of its subsidiaries has not been finally determined. No transaction, stamp, capital or other issuance, registration, transaction, transfer or withholding tax or duty is payable in the Netherlands by or on behalf of Cowen to any taxing authority in connection with (i) the issuance, sale and delivery of the Common Shares by the Company; (ii) the purchase from the Company, and the initial sale and delivery Cowen of the Common Shares to purchasers thereof; (iii) the holding or transfer of the Common Shares; or (iv) the execution and delivery of this Agreement or any other document to be furnished hereunder.

- (r) <u>Company Not an "Investment Company"; Not a "Passive Foreign Investment Company</u>". The Company is not, and will not be, either after receipt of payment for the Common Shares or after the application of the proceeds therefrom as described under "Use of Proceeds" in the Registration Statement or the Prospectus, required to register as an "investment company" under the Investment Company Act of 1940, as amended (the "<u>Investment Company Act</u>"). Based on certain estimates, including as to the relative values of its assets, the Company does not believe that it was a PFIC for its 2014 taxable year.
- (s) <u>Insurance</u>. Except as described in the Registration Statement and the Prospectus, each of the Company and its subsidiaries are insured with policies in such amounts and with such deductibles and covering such risks as the Company reasonably deems adequate and customary for their businesses including, but not limited to, policies covering real and personal property owned or leased by the Company and its subsidiaries against theft, damage, destruction, acts of vandalism and earthquakes and policies covering the Company and its subsidiaries for product liability claims and clinical trial liability claims. The Company has no reason to believe that it or any of its subsidiaries will not be able (i) to renew its existing insurance coverage as and when such policies expire or (ii) to obtain comparable coverage from similar institutions as may be necessary or appropriate to conduct its business as now conducted and at a cost that could not reasonably be expected to have a Material Adverse Effect. Neither the Company nor any of its subsidiaries has been denied any insurance coverage which it has sought or for which it has applied.
- (t) No Price Stabilization or Manipulation; Compliance with Regulation M. Neither the Company nor any of its subsidiaries has taken, directly or indirectly (without giving any effect to the activities by Cowen), any action designed to or that might cause or result in stabilization or manipulation of the price of the Common Shares or of any "reference security" (as defined in Rule 100 of Regulation M under the Exchange Act ("Regulation M")) with respect to the Common Shares, whether to facilitate the sale or resale of the Offered Shares or otherwise, and has taken no action which would directly violate Regulation M.
- (u) <u>Related Party Transactions</u>. There are no business relationships or related-party transactions involving the Company or any of its subsidiaries or any other person required to be described in the Registration Statement or the Prospectus that have not been described as required.
- (v) Exchange Act Compliance. The Annual Report and all documents subsequently incorporated or deemed to be incorporated by reference in the Prospectus, at the time they were or hereafter are filed with the Commission, complied and will comply in all material respects with the requirements of the Exchange Act, and, when read together with the other information in the Prospectus, at the Settlement Dates, will not contain an untrue statement of a material fact

or omit to state a material fact required to be stated therein or necessary to make the fact required to be stated therein or necessary to make the statements therein, in the light of the circumstances under which they were made, not misleading.

- (w) No Unlawful Contributions or Other Payments. Neither the Company nor any of its subsidiaries nor, to the Company's knowledge, any employee or agent of the Company or any subsidiary, has made any contribution or other payment to any official of, or candidate for, any federal, state or foreign office in violation of any law or of the character required to be disclosed in the Registration Statement or the Prospectus.
- (x) <u>Money Laundering Laws</u>. The operations of the Company and its subsidiaries are, and have been conducted at all times, in compliance with applicable financial recordkeeping and reporting requirements of the Currency and Foreign Transactions Reporting Act of 1970, as amended, the money laundering statutes of all applicable jurisdictions, the rules and regulations thereunder and any related or similar applicable rules, regulations or guidelines, issued, administered or enforced by any governmental agency (collectively, the "<u>Money Laundering Laws</u>") and no action, suit or proceeding by or before any court or governmental agency, authority or body or any arbitrator involving the Company or any of its subsidiaries with respect to the Money Laundering Laws is pending or, to the knowledge of the Company, threatened.
- (y) <u>OFAC</u>. Neither the Company nor any of its subsidiaries nor, to the knowledge of the Company, after due inquiry, any director, officer, agent, employee, affiliate or person acting on behalf of the Company or any of its subsidiaries is currently subject to any U.S. sanctions administered by the Office of Foreign Assets Control of the U.S. Treasury Department ("<u>OFAC</u>"); and the Company will not directly or indirectly use the proceeds of this offering, or lend, contribute or otherwise make available such proceeds to any subsidiary, or any joint venture partner or other person or entity, for the purpose of financing the activities of or business with any person, or impermissibly in any country or territory, that currently is the subject to any U.S. sanctions administered by OFAC or in any other manner that will result in a violation by any person (including any person participating in the transaction whether as underwriter, advisor, investor or otherwise) of U.S. sanctions administered by OFAC.
- (z) <u>Company's Accounting System</u>. The Company and each of its subsidiaries make and keep accurate books and records and maintain a system of internal accounting controls sufficient to provide reasonable assurance that: (i) transactions are executed in accordance with management's general or specific authorization; (ii) transactions are recorded as necessary to permit preparation of financial statements in conformity with IFRS as issued by the IASB and to maintain accountability for assets; (iii) access to assets is permitted only in accordance with management's general or specific authorization; and (iv) the recorded accountability for assets is compared with existing assets at reasonable intervals and appropriate action is taken with respect to any differences.
- (aa) <u>Compliance with Environmental Laws</u>. Except as described in the Registration Statement and the Prospectus and except as would not reasonably be expected, individually or in the aggregate, to have a Material Adverse Effect: (i) neither the Company nor any of its subsidiaries is in violation of any applicable federal, state, local or foreign statute, law, rule, regulation, ordinance, code, policy or rule of common law or any judicial or administrative interpretation thereof, including any judicial or administrative order, consent, decree or

judgment, relating to pollution, the protection of human health (but solely as it relates to the environment or exposure to pollutants), the environment (including, without limitation, ambient air, surface water, groundwater, land surface or subsurface strata) or wildlife, including, without limitation, laws and regulations relating to the release or threatened release into the environment of chemicals, pollutants, contaminants, wastes, toxic substances, hazardous substances, petroleum or petroleum products (collectively, "Hazardous Materials") or to the manufacture, processing, distribution, use, treatment, storage, disposal, transport or handling of Hazardous Materials (collectively, "Environmental Laws"); (ii) the Company and its subsidiaries have all permits, authorizations and approvals required to conduct their respective businesses under any applicable Environmental Laws and are each in compliance with their respective requirements; (iii) there are no pending or, to the Company's knowledge, threatened administrative, regulatory or judicial actions, suits, demands, demand letters, claims, liens, notices of noncompliance or violation, investigation or proceedings related to any Environmental Law against the Company or any of its subsidiaries; and (iv) to the Company's knowledge, there are no events or circumstances that might reasonably be expected to form the basis of an order for clean-up or remediation, or an action, suit or proceeding by any private party or governmental body or agency, against or affecting the Company or any of its subsidiaries relating to Hazardous Materials or any Environmental Laws.

(bb) Intellectual Property. The Company and its subsidiaries own, or have obtained valid and enforceable licenses for, the inventions, patent applications, patents, trade names, service names, copyrights, trade secrets and other intellectual property (1) described in the Registration Statement and the Prospectus as being owned or licensed by them or (2) which are necessary for the conduct of their respective businesses as currently conducted or as currently proposed in the Registration Statement and the Prospectus to be conducted (collectively, "Intellectual Property") except in the case of clause (2) where the failure to own, possess or acquire such rights would not reasonably be expected, individually or in the aggregate, to have a Material Adverse Effect. Except as described in the Registration Statement and the Prospectus or as would not reasonably be expected, individually or in the aggregate, to have a Material Adverse Effect, to the Company's knowledge: (i) there are no third parties who have rights to any Intellectual Property owned by or exclusively licensed to the Company or any of its subsidiaries, except for customary reversionary rights of third-party licensors; and (ii) there is no infringement by third parties of any Intellectual Property. Except as would not reasonably be expected, individually or in the aggregate, to have a Material Adverse Effect, there is no pending or, to the Company's knowledge, threatened action, suit, proceeding or claim by others: (A) challenging the Company's or any of its subsidiaries' rights in or to any Intellectual Property, and the Company is unaware of any facts which would form a reasonable basis for any such action, suit, proceeding or claim; (B) challenging the validity, enforceability or scope of any Intellectual Property, and the Company is unaware of any facts which would form a reasonable basis for any such action, suit, proceeding or claim; or (C) asserting that the Company or any of its subsidiaries infringes or otherwise violates, or would, upon the commercialization of any product or service described in the Registration Statement or the Prospectus as under development, infringe or violate, any patent, trademark, trade name, service name, copyright, trade secret or other proprietary rights of others, and the Company is unaware of any facts which would form a reasonable basis for any such action, suit, proceeding or claim. Except as would not reasonably be expected, individually or in the aggregate, to have a Material Adverse Effect, the Company and its subsidiaries have complied with the terms of each agreement pursuant to

which Intellectual Property has been licensed to the Company or any subsidiary, and all such agreements are in full force and effect. The product candidates described in the Registration Statement and the Prospectus as under development by the Company or any of its subsidiaries fall within the scope of the claims of one or more patents owned by, or exclusively licensed to, the Company or any of its subsidiaries.

- (cc) <u>Brokers</u>. Except pursuant to this Agreement and except as disclosed in the Registration Statement and the Prospectus, there is no broker, finder or other party that is entitled to receive from the Company any brokerage or finder's fee or other fee or commission as a result of any transactions contemplated by this Agreement.
- (dd) No Outstanding Loans or Other Indebtedness. Except as described in the Prospectus, there are no outstanding loans, advances (except normal advances for business expenses in the ordinary course of business) or guarantees or indebtedness by the Company to or for the benefit of any of the officers or directors of the Company or any of the members of any of them.
- (ee) No Reliance. The Company has not relied upon Cowen or legal counsel for Cowen for any legal, tax or accounting advice in connection with the offering and sale of the Placement Shares.
- (ff) <u>Compliance with Laws</u>. The Company and its subsidiaries have been and are in compliance with all applicable laws, rules and regulations, except where failure to be so in compliance could not reasonably be expected, individually or in the aggregate, to have a Material Adverse Effect.
- (gg) <u>Submission to Jurisdiction</u>. The Company has the power to submit, and pursuant to Section 16 of this Agreement, has legally, validly, effectively and irrevocably submitted, to the personal jurisdiction of each United States federal court and New York state court located in the Borough of Manhattan, in the City of New York, New York, U.S.A. (each, a "<u>New York Court</u>"), and the Company has the power to designate, appoint and authorize, and pursuant to Section 16 of this Agreement, has legally, validly, effectively and irrevocably designated, appointed and authorized an agent for service of process in any action arising out of or relating to this Agreement or the Placement Shares in any New York Court, and service of process effected on such authorized agent will be effective to confer valid personal jurisdiction over the Company as provided in Section 16 hereof.
- (hh) No Rights of Immunity. Except as provided by laws or statutes generally applicable to transactions of the type described in this Agreement, neither the Company nor any of its respective properties, assets or revenues has any right of immunity under the laws of the Netherlands, New York or United States law, from any legal action, suit or proceeding, from the giving of any relief in any such legal action, suit or proceeding, from set-off or counterclaim, from the jurisdiction of any Netherlands, New York or United States federal court, from service of process, attachment upon or prior judgment, or attachment in aid of execution of judgment, or from execution of a judgment, or other legal process or proceeding for the giving of any relief or for the enforcement of a judgment, in any such court, with respect to its obligations, liabilities or any other matter under or arising out of or in connection with this Agreement. To the extent that the Company or any of its respective properties, assets or revenues may have or may hereafter

become entitled to any such right of immunity in any such court in which proceedings may at any time be commenced, the Company waives or will waive such right to the extent permitted by law and has consented to such relief and enforcement as provided in Section 16 of this Agreement.

- (ii) <u>Title to Properties</u>. The Company and its subsidiaries have good and marketable title to all of the real and personal property and other assets reflected as owned in the financial statements referred to in Section 6(k) above (or elsewhere in the Registration Statement or the Prospectus), in each case free and clear of any security interests, mortgages, liens, encumbrances, equities, adverse claims and other defects, except as otherwise disclosed in the Registration Statement and the Prospectus or as could not reasonably be expected, individually or in the aggregate, to affect materially the value of such property and does not materially interfere with the use made or proposed to be made of such real and personal property and other assets by the Company and its subsidiaries or as could not reasonably be expected to have a Material Adverse Effect. The real property, improvements, equipment and personal property held under lease by the Company or any of its subsidiaries are held under valid and enforceable leases, with such exceptions as are not material and do not materially interfere with the use made or proposed to be made of such real property, improvements, equipment or personal property by the Company or such subsidiary.
- (jj) <u>Disclosure Controls and Procedures; Deficiencies in or Changes to Internal Control Over Financial Reporting</u>. The Company has established and maintains disclosure controls and procedures (as defined in Rules 13a-15 and 15d-15 under the Exchange Act), which (i) are designed to ensure that material information relating to the Company, including any consolidated subsidiaries, is made known to the Company's principal executive officer and its principal financial officer by others within those entities, particularly during the periods in which the periodic reports required under the Exchange Act are being prepared and (ii) are effective in all material respects to perform the functions for which they were established. Except as otherwise disclosed in the Registration Statement and the Prospectus, since the end of the Company's most recent audited fiscal year, there have been no significant deficiencies or material weaknesses in the Company's internal control over financial reporting (whether or not remediated) and no change in the Company's internal control over financial reporting that has materially affected, or is reasonably likely to materially affect, the Company's internal control over financial quarter that has materially and adversely affected, or is reasonably likely to materially and adversely affect, the Company's internal control over financial reporting.
- (kk) Stock Exchange Listing. The Common Shares are registered pursuant to Section 12(b) or 12(g) of the Exchange Act and are listed on The NASDAQ Global Market (the "NASDAQ"), and the Company has taken no action designed to, or likely to have the effect of, terminating the registration of the Common Shares under the Exchange Act or delisting the Common Shares from the NASDAQ, nor has the Company received any notification that the Commission or the NASDAQ is contemplating terminating such registration or listing. To the Company's knowledge, it is in compliance with all applicable listing requirements of NASDAQ.
- (ll) <u>FINRA Matters</u>. All of the information provided to Cowen or to counsel for Cowen by the Company, its counsel, its officers and directors and, to the Company's knowledge, the

holders of any securities (debt or equity) or options to acquire any securities of the Company in connection with the offering of the Common Shares is true, complete, correct and compliant with FINRA's rules in all material respects and any letters, filings or other supplemental information provided to FINRA by the Company pursuant to FINRA Rules or NASD Conduct Rules is true, complete and correct in all material respects.

- (mm) <u>Statistical and Market-Related Data</u>. All statistical, demographic and market-related data included in the Registration Statement or the Prospectus are based on or derived from sources that the Company believes to be reliable and accurate in all material respects. To the extent required, the Company has obtained the written consent to the use of such data from such sources.
- (nn) Foreign Corrupt Practices Act. Neither the Company nor any of its subsidiaries nor, to the knowledge of the Company, any director, officer, agent, employee, affiliate or other person acting on behalf of the Company or any of its subsidiaries has, in the course of its actions for, or on behalf of, the Company or any of its subsidiaries (i) used any corporate funds for any unlawful contribution, gift, entertainment or other unlawful expenses relating to political activity; (ii) made any direct or indirect unlawful payment to any domestic government official, "foreign official" (as defined in the U.S. Foreign Corrupt Practices Act of 1977, as amended, and the rules and regulations thereunder (collectively, the "FCPA") or employee from corporate funds; (iii) violated or is in violation of any provision of the FCPA or any applicable non-U.S. anti-bribery statute or regulation; or (iv) made any unlawful bribe, rebate, payoff, influence payment, kickback or other unlawful payment to any domestic government official, such foreign official or employee; and the Company and its subsidiaries and, to the knowledge of the Company, the Company's affiliates have conducted their respective businesses in compliance with the FCPA and will institute as of the First Delivery Date and maintain policies and procedures designed to promote and achieve continued compliance therewith.
- (oo) <u>Forward-Looking Statements</u>. Each financial or operational projection or other "forward-looking statement" (as defined by Section 27A of the Securities Act or Section 21E of the Exchange Act) contained in the Registration Statement or the Prospectus (i) was so included by the Company in good faith and with reasonable basis after due consideration by the Company of the underlying assumptions, estimates and other applicable facts and circumstances and (ii) is accompanied by meaningful cautionary statements identifying those factors that could cause actual results to differ materially from those in such forward-looking statement. No such statement was made with the knowledge of an executive officer or director of the Company that is was false or misleading.
 - (pp) Foreign Private Issuer. The Company is a "foreign private issuer" within the meaning of Rule 405 under the Securities Act.
- (qq) <u>Clinical Data and Regulatory Compliance</u>. The preclinical tests and clinical trials conducted or sponsored by the Company (collectively, "<u>studies</u>") that are described in, or the results of which are referred to in, the Registration Statement or the Prospectus were and, if still pending, are, to the Company's knowledge, being conducted in all material respects in accordance with the protocols, procedures and controls designed and approved for such studies and with standard medical and scientific research procedures; each description of the results of such studies is reasonably accurate and complete in all material respects in the context of the

experimental set-up and fairly presents the data derived from such studies within the limits of interpretation by people trained in the trade, and the Company and its subsidiaries have no knowledge of any other studies the results of which are inconsistent with, or otherwise call into question, the results described or referred to in the Registration Statement or the Prospectus; the Company and its subsidiaries have made all such filings and obtained all such approvals as may be required by the Food and Drug Administration of the U.S. Department of Health and Human Services or any committee thereof or from any other U.S. or foreign government or drug or medical device regulatory agency, or health care facility Institutional Review Board (collectively, the "Regulatory Agencies") for the operation of the Company's business as currently conducted, except as could not be expected, individually or in the aggregate, to have a Material Adverse Effect; neither the Company nor any of its subsidiaries has received any notice of, or correspondence from, any Regulatory Agency requiring the termination, suspension or modification of any clinical trials that are described or referred to in the Registration Statement or the Prospectus; and the Company and its subsidiaries have each operated and currently are in compliance in all material respects with all applicable rules and regulations of the Regulatory Agencies, except as could not be expected, individually or in the aggregate, to have a Material Adverse Effect.

- (rr) No Rights to Purchase Preferred Stock. The issuance and sale of the Common Shares as contemplated hereby will not cause any holder of any share capital, securities convertible into or exchangeable or exercisable for share capital or options, warrants or other rights to purchase share capital or any other securities of the Company to have any right to acquire any shares of preferred stock of the Company.
- (ss) No Contract Terminations. Neither the Company nor any of its subsidiaries has sent or received any communication regarding termination of, or intent not to renew, any of the contracts or agreements referred to or described in the Prospectus or any free writing prospectus, or referred to or described in, or filed as an exhibit to, the Registration Statement, or any document incorporated by reference therein, and no such termination or non-renewal has been threatened by the Company or any of its subsidiaries or, to the Company's knowledge, any other party to any such contract or agreement, which threat of termination or non-renewal has not been rescinded as of the date hereof, except where such termination or non-renewal could not, individually or in the aggregate, reasonably be expected to have a Material Adverse Effect.
- (tt) <u>Dividend Restrictions</u>. Other than as prohibited or restricted by law, no subsidiary of the Company is prohibited or restricted, directly or indirectly, from paying dividends to the Company, or from making any other distribution with respect to such subsidiary's equity securities or from repaying to the Company or any other subsidiary of the Company any amounts that may from time to time become due under any loans or advances to such subsidiary from the Company or from transferring any property or assets to the Company or to any other subsidiary.

Any certificate signed by an officer of the Company and delivered to Cowen or to counsel for Cowen shall be deemed to be a representation and warranty by the Company to Cowen as to the matters set forth therein.

The Company acknowledges that Cowen and, for purposes of the opinions to be delivered pursuant to <u>Section 7</u> hereof, counsel to the Company and counsel to Cowen, will rely upon the accuracy and truthfulness of the foregoing representations and hereby consents to such reliance.

- 7. <u>Covenants of the Company</u>. The Company covenants and agrees with Cowen that:
- (a) Registration Statement Amendments. After the date of this Agreement and during any period in which a Prospectus relating to any Placement Shares is required to be delivered by Cowen under the Securities Act (including in circumstances where such requirement may be satisfied pursuant to Rule 172 under the Securities Act), (i) the Company will notify Cowen promptly of the time when any subsequent amendment to the Registration Statement, other than documents incorporated by reference or not related to any Placement, has been filed with the Commission and/or has become effective or any subsequent supplement to the Prospectus has been filed and of any request by the Commission for any amendment or supplement to the Registration Statement or Prospectus related to the Placement or for additional information related to the Placement, (ii) the Company will prepare and file with the Commission, promptly upon Cowen's request, any amendments or supplements to the Registration Statement or Prospectus that, in Cowen's reasonable opinion, may be necessary or advisable in connection with the distribution of the Placement Shares by Cowen (provided, however, that the failure of Cowen to make such request shall not relieve the Company of any obligation or liability hereunder, or affect Cowen's right to rely on the representations and warranties made by the Company in this Agreement); (iii) the Company will not file any amendment or supplement to the Registration Statement or Prospectus, other than documents incorporated by reference, relating to the Placement Shares or a security convertible into the Placement Shares unless a copy thereof has been submitted to Cowen within a reasonable period of time before the filing and Cowen has not reasonably objected thereto (provided, however, that (A) the failure of Cowen to make such objection shall not relieve the Company of any obligation or liability hereunder, or affect Cowen's right to rely on the representations and warranties made by the Company in this Agreement , (B) the Company has no obligation to provide Cowen any advance copy of such filing or to provide Cowen an opportunity to object to such filing if the filing does not name Cowen or does not relate to the transaction herein provided, and (C) the only remedy Cowen shall have with respect to the failure by the Company to provide Cowen with such copy or the filing of such amendment or supplement despite Cowen's objection shall be to cease making sales under this Agreement); (iv) the Company will furnish to Cowen at the time of filing thereof a copy of any document that upon filing is deemed to be incorporated by reference into the Registration Statement or Prospectus, except for those documents available via IDEA; and (v) the Company will cause each amendment or supplement to the Prospectus, other than documents incorporated by reference, to be filed with the Commission as required pursuant to the applicable paragraph of Rule 424(b) of the Securities Act or, in the case of any document to be incorporated therein by reference, to be filed with the Commission as required pursuant to the Exchange Act, within the time period prescribed (the determination to file or not file any amendment or supplement with the Commission under this Section 7(a), based on the Company's reasonable opinion or reasonable objections, shall be made exclusively by the Company).
- (b) <u>Notice of Commission Stop Orders</u>. The Company will advise Cowen, promptly after it receives notice or obtains knowledge thereof, of the issuance or threatened issuance by the Commission of any stop order suspending the effectiveness of the Registration Statement, of the suspension of the qualification of the Placement Shares for offering or sale in any jurisdiction, or of the initiation or threatening of any proceeding for any such purpose; and it will

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- (c) <u>Delivery of Prospectus</u>; <u>Subsequent Changes</u>. During any period in which a Prospectus relating to the Placement Shares is required to be delivered by Cowen under the Securities Act with respect to a pending sale of the Placement Shares, (including in circumstances where such requirement may be satisfied pursuant to Rule 172 under the Securities Act), the Company will comply with all requirements imposed upon it by the Securities Act, as from time to time in force, and to file on or before their respective due dates all reports and any definitive proxy or information statements required to be filed by the Company with the Commission pursuant to Sections 13(a), 13(c), 14, 15(d) or any other provision of or under the Exchange Act. If during such period any event occurs as a result of which the Prospectus as then amended or supplemented would include an untrue statement of a material fact or omit to state a material fact necessary to make the statements therein, in the light of the circumstances then existing, not misleading, or if during such period it is necessary to amend or supplement the Registration Statement or Prospectus to comply with the Securities Act, the Company will promptly notify Cowen to suspend the offering of Placement Shares during such period and the Company will promptly amend or supplement the Registration Statement or Prospectus (at the expense of the Company) so as to correct such statement or omission or effect such compliance; *provided*, *however*, that the Company may delay the filing of any amendment or supplement, if in the judgment of the Company, it is in the best interest of the Company.
- (d) <u>Listing of Placement Shares</u>. During any period in which the Prospectus relating to the Placement Shares is required to be delivered by Cowen under the Securities Act with respect to a pending sale of the Placement Shares (including in circumstances where such requirement may be satisfied pursuant to Rule 172 under the Securities Act), the Company will use its commercially reasonable efforts to cause the Placement Shares to be listed on Nasdaq and to qualify the Placement Shares for sale under the securities laws of such jurisdictions as Cowen reasonably designates and to continue such qualifications in effect so long as required for the distribution of the Placement Shares; *provided*, *however*, that the Company shall not be required in connection therewith to qualify as a foreign corporation or dealer in securities or file a general consent to service of process in any jurisdiction.
- (e) <u>Delivery of Registration Statement and Prospectus</u>. The Company will furnish to Cowen and its counsel (at the reasonable expense of the Company) copies of the Registration Statement, the Prospectus (including all documents incorporated by reference therein) and all amendments and supplements to the Registration Statement or Prospectus that are filed with the Commission during any period in which a Prospectus relating to the Placement Shares is required to be delivered under the Securities Act (including all documents filed with the Commission during such period that are deemed to be incorporated by reference therein), in each case as soon as reasonably practicable and in such quantities as Cowen may from time to time reasonably request and, at Cowen's request, will also furnish copies of the Prospectus to each exchange or market on which sales of the Placement Shares may be made; *provided*, *however*, that the Company shall not be required to furnish any document (other than the Prospectus) to Cowen to the extent such document is available on IDEA.
- (f) <u>Earnings Statement</u>. The Company will make generally available to its security holders as soon as practicable, but in any event not later than 15 months after the end of the

Company's current fiscal quarter, an earnings statement covering a 12-month period that satisfies the provisions of Section 11(a) and Rule 158 of the Securities Act. For the avoidance of doubt, the Company's compliance with the reporting requirements of the Exchange Act shall be deemed to satisfy the requirements of this Section 7(f).

- (g) Expenses. The Company, whether or not the transactions contemplated hereunder are consummated or this Agreement is terminated, in accordance with the provisions of Section 11 hereunder, will pay the following expenses all incident to the performance of its obligations hereunder, including, but not limited to, expenses relating to (i) the preparation, printing and filing of the Registration Statement and each amendment and supplement thereto, of each Prospectus and of each amendment and supplement thereto, (ii) the preparation, issuance and delivery of the Placement Shares, (iii) the qualification of the Placement Shares under securities laws in accordance with the provisions of Section 7(d) of this Agreement, including filing fees (provided, however, that any fees or disbursements of counsel for Cowen in connection therewith shall be paid by Cowen except as set forth in (vii) below), (iv) the printing and delivery to Cowen of copies of the Prospectus and any amendments or supplements thereto, and of this Agreement, (v) the fees and expenses incurred in connection with the listing or qualification of the Placement Shares for trading on Nasdaq, (vi) the filing fees and expenses, if any, of the Commission, (vii) the filing fees for filings with the FINRA Corporate Financing Department, and (viii) the reasonable fees and disbursements of Cowen's counsel in an amount not to exceed \$50,000, provided, however, in no event shall the total compensation paid to Cowen, including reimbursements of fees, expenses and disbursements of its counsel, exceed 8.0% of the gross proceeds to the Company from the sale of Placement Shares.
 - (h) <u>Use of Proceeds</u>. The Company will use the Net Proceeds as described in the Prospectus in the section entitled "Use of Proceeds."
- (i) Notice of Other Sales. During the pendency of any Placement Notice given hereunder, and for five (5) trading days following the termination of any Placement Notice given hereunder, the Company shall provide Cowen notice as promptly as reasonably possible before it offers to sell, contracts to sell, sells, grants any option to sell or otherwise disposes of any Common Shares (other than Placement Shares offered pursuant to the provisions of this Agreement) or securities convertible into or exchangeable for Common Shares, warrants or any rights to purchase or acquire Common Shares; provided, that such notice shall not be required in connection with the (i) issuance, grant or sale of Common Shares, options to purchase Common Shares or Common Shares issuable upon the exercise of options or other equity awards pursuant to the any stock option, stock bonus or other stock plan or arrangement described in the Prospectus, (ii) the issuance of securities in connection with an acquisition, merger or sale or purchase of assets, (iii) the issuance or sale of Common Shares pursuant to any dividend reinvestment plan that the Company may adopt from time to time provided the implementation of such is disclosed to Cowen in advance, (iv) any common shares issuable upon the exchange, conversion or redemption of securities or the exercise of warrants, options or other rights in effect or outstanding or (v) any common shares, or securities convertible into or exercisable for common shares, offered and sold in a privately negotiated transaction to vendors, customers, investors, strategic partners or potential strategic partners and otherwise conducted in a manner so as not to be integrated with the offering of common shares hereby.

- (j) <u>Change of Circumstances</u>. The Company will, at any time during the pendency of a Placement Notice, advise Cowen promptly after it shall have received notice or obtained knowledge thereof, of any information or fact that would alter or affect in any material respect any opinion, certificate, letter or other document provided to Cowen pursuant to this Agreement.
- (k) <u>Due Diligence Cooperation</u>. During the term of the Agreement, the Company will cooperate with any reasonable due diligence review conducted by Cowen or its agents in connection with the transactions contemplated hereby, including, without limitation, providing information and making available documents and senior corporate officers, during regular business hours and at the Company's principal offices or such other location mutually agreeable by the parties, as Cowen may reasonably request.
- (l) <u>Required Filings Relating to Placement of Placement Shares</u>. The Company agrees that on or before such dates as the Securities Act shall require, the Company will (i) file a prospectus supplement with the Commission under the applicable paragraph of Rule 424(b) under the Securities Act (each and every filing under Rule 424(b), a "<u>Filing Date</u>"), which prospectus supplement will set forth, within the relevant period, the amount of Placement Shares sold through Cowen, the Net Proceeds to the Company and the compensation payable by the Company to Cowen with respect to such Placement Shares (provided that the Company may satisfy its obligations under this Section 7(l)(i) by effecting a filing in accordance with the Exchange Act with respect to such information), and (ii) deliver such number of copies of each such prospectus supplement to each exchange or market on which such sales were effected as may be required by the rules or regulations of such exchange or market.
- (m) Representation Dates; Certificate. On or prior to the First Delivery Date and each time the Company (i) files the Prospectus relating to the Placement Shares or amends or supplements the Registration Statement or the Prospectus relating to the Placement Shares (other than a prospectus supplement filed in accordance with Section 7(l) of this Agreement) by means of a post-effective amendment, sticker, or supplement but not by means of incorporation of document(s) by reference to the Registration Statement or the Prospectus relating to the Placement Shares; (ii) files an annual report on Form 20-F under the Exchange Act; or (iii) files a report on Form 6-K under the Exchange Act containing financial information which is deemed to be incorporated by reference in the Registration Statement and Prospectus (each date of filing of one or more of the documents referred to in clauses (i) through (iii) shall be a "Representation Date"); the Company shall furnish Cowen with a certificate, in the form attached hereto as Exhibit 7(m) within three (3) Trading Days of any Representation Date if requested by Cowen. The requirement to provide a certificate under this Section 7(m) shall be waived for any Representation Date occurring at a time at which no Placement Notice is pending, which waiver shall continue until the earlier to occur of the date the Company delivers a Placement Notice hereunder (which for such calendar quarter shall be considered a Representation Date) and the next occurring Representation Date; provided, however, that such waiver shall not apply for any Representation Date on which the Company files its annual report on Form 20-F. Notwithstanding the foregoing, if the Company subsequently decides to sell Placement Shares following a Representation Date when the Company relied on such waiver and did not provide Cowen with a certificate under this Section 7(m), then before the Company delivers the Placement Notice or Cowen sells any Placement Shares, the Company shall provide

- (n) Legal Opinions. On or prior to the First Delivery Date and within three (3) Trading Days of (i) the Company's filing of its annual report on Form 20-F under the Exchange Act and (ii) the Company's annual filing of a report on Form 6-K under the Exchange Act containing financial information for its second fiscal quarter ended on June 30 (each of (i) and (ii), an "Opinion Representation Date"), the Company shall cause to be furnished to Cowen written opinions of Davis Polk & Wardwell LLP ("U.S. Company Counsel") and De Brauw Blackstone Westbroek N.V. ("Dutch Company Counsel") or other counsel satisfactory to Cowen, in form and substance satisfactory to Cowen and its counsel, dated the date that the opinions are required to be delivered, substantially similar to the forms attached hereto as Exhibit 7(n), respectively, and a written opinion of counsel reasonably satisfactory to Cowen and the Company covering matters of German law and matters specific to the Company ("German Company Counsel") in form and substance reasonably satisfactory to Cowen, each modified, as necessary, to relate to the Registration Statement and the Prospectus as then amended or supplemented; provided, however, that in lieu of such opinions for subsequent Opinion Representation Dates, counsel may furnish Cowen with a letter (a "Reliance Letter") to the effect that Cowen may rely on a prior opinion delivered under this Section 7(n) to the same extent as if it were dated the date of such letter (except that statements in such prior opinion shall be deemed to relate to the Registration Statement and the Prospectus as amended or supplemented at such Opinion Representation Date). The requirement to provide the opinions under this Section 7(n) shall be waived for any Opinion Representation Date occurring at a time at which no Placement Notice is pending. Notwithstanding the foregoing, if the Company subsequently decides to sell Placement Shares following an Opinion Representation Date when the Company relied on such waiver and did not provide Cowen with the opinions under this Section 7(n), then before the Company delivers the Placement Notice or Cowen sells any Placement Shares, the Company shall provide Cowen with the opinions, substantially similar to the forms attached hereto as Exhibit 7(n), dated the date of the Placement Notice.
- (o) Comfort Letter. On or prior to the First Delivery Date and within three (3) Trading Days of (i) the Company's filing of its annual report on Form 20-F under the Exchange Act, (ii) the Company's annual filing of a report on Form 6-K under the Exchange Act containing financial information for its second fiscal quarter ended on June 30 and (iii) the Company's filing of a report on Form 6-K under the Exchange Act containing financial information which is deemed to be incorporated by reference in the Registration Statement and Prospectus (each of (i), (ii) and (iii), a "Comfort Letter Representation Date"), the Company shall cause its independent accountants to furnish Cowen letters (the "Comfort Letters"), dated the date of the Comfort Letter is delivered, in form and substance reasonably satisfactory to Cowen, (i) confirming that they are an independent registered public accounting firm within the meaning of the Securities Act and the PCAOB, (ii) stating, as of such date, the conclusions and findings of such firm with respect to the financial information and other matters ordinarily covered by accountants' "comfort letters" to Cowen in connection with registered public offerings (the first such letter, the "Initial Comfort Letter") and (iii) updating the Initial Comfort Letter with any information that would have been included in the Initial Comfort Letter had it been given on such date and modified as necessary to relate to the Registration Statement and the Prospectus, as amended and supplemented to the date of such letter. The requirement to provide a Comfort Letter under this Section 7(a) shall be waived for any Comfort Letter Representation Date occurring at a time at

which no Placement Notice is pending. Notwithstanding the foregoing, if the Company subsequently decides to sell Placement Shares following a Comfort Letter Representation Date when the Company relied on such waiver and did not provide Cowen with a Comfort Letter under this Section 7(o), then before the Company delivers the Placement Notice or Cowen sells any Placement Shares, the Company shall provide Cowen with a Comfort Letter, in form and substance reasonably satisfactory to Cowen, dated the date of the Placement Notice.

- (p) <u>Market Activities</u>. The Company will not, directly or indirectly, (i) take any action designed to cause or result in, or that constitutes or might reasonably be expected to constitute, the stabilization or manipulation of the price of any security of the Company to facilitate the sale or resale of the Common Shares or (ii) sell, bid for, or purchase the Common Shares to be issued and sold pursuant to this Agreement, or pay anyone any compensation for soliciting purchases of the Common Shares other than Cowen; provided, however, that the Company may bid for and purchase its common shares in accordance with Rule 10b-18 under the Exchange Act.
- (q) <u>Investment Company Act</u>. The Company will conduct its affairs in such a manner so as to reasonably ensure that neither it nor the Subsidiaries will be or become, at any time prior to the termination of this Agreement, an "investment company," as such term is defined in the Investment Company Act, assuming no change in the Commission's current interpretation as to entities that are not considered an investment company.
- (r) No Offer to Sell. Other than a free writing prospectus (as defined in Rule 405 under the Securities Act) approved in advance by the Company and Cowen in its capacity as principal or agent hereunder, neither Cowen nor the Company (including its agents and representatives, other than Cowen in its capacity as such) will make, use, prepare, authorize, approve or refer to any written communication (as defined in Rule 405 under the Securities Act), required to be filed with the Commission, that constitutes an offer to sell or solicitation of an offer to buy Common Shares hereunder
- (s) <u>Sarbanes-Oxley Act</u>. The Company and the Subsidiaries will use their best efforts to comply with all effective applicable provisions of the Sarbanes-Oxley Act.
- (t) <u>Tax Indemnity</u>. The Company will indemnify and hold harmless Cowen against any documentary, stamp or similar issue tax, including any interest and penalties, on the creation, issue and sale of the Placement Shares and on the execution and delivery of this Agreement.
- (u) <u>Transfer Agent</u>. The Company agrees to maintain a transfer agent and, if necessary under the jurisdiction of organization of the Company, a registrar for the Common Shares.
- 8. <u>Conditions to Cowen's Obligations</u>. The obligations of Cowen hereunder with respect to a Placement will be subject to the continuing accuracy and completeness of the representations and warranties made by the Company herein, to the due performance by the Company of its obligations hereunder, to the completion by Cowen of a due diligence review satisfactory to Cowen in its reasonable judgment, and to the continuing satisfaction (or waiver by Cowen in its sole discretion) of the following additional conditions:

- (a) <u>Registration Statement Effective</u>. The Registration Statement shall be effective and shall be available for (i) all sales of Placement Shares issued pursuant to all prior Placement Notices and (ii) the sale of all Placement Shares contemplated to be issued by any Placement Notice.
- (b) No Material Notices. None of the following events shall have occurred and be continuing: (i) receipt by the Company or any of its Subsidiaries of any request for additional information from the Commission or any other federal or state governmental authority during the period of effectiveness of the Registration Statement, the response to which would require any post-effective amendments or supplements to the Registration Statement or the Prospectus; (ii) the issuance by the Commission or any other federal or state governmental authority of any stop order suspending the effectiveness of the Registration Statement or the initiation of any proceedings for that purpose; (iii) receipt by the Company of any notification with respect to the suspension of the qualification or exemption from qualification of any of the Placement Shares for sale in any jurisdiction or the initiation or threatening of any proceeding for such purpose; (iv) the occurrence of any event that makes any material statement made in the Registration Statement or the Prospectus or any material document incorporated or deemed to be incorporated therein by reference untrue in any material respect or that requires the making of any changes in the Registration Statement, related Prospectus or such documents so that, in the case of the Registration Statement, it will not contain any materially untrue statement of a material fact or omit to state any materially untrue statement of a material fact required to be stated therein or necessary to make the statements therein not misleading and, that in the case of the Prospectus, it will not contain any materially untrue statement of a material fact required to be stated therein or necessary to make the statements therein, in the light of the circumstances under which they were made, not misleading.
- (c) <u>No Material Misstatements or Material Omission</u>. Cowen shall not have advised the Company that the Registration Statement or Prospectus, or any amendment or supplement thereto, contains an untrue statement of fact that in Cowen's reasonable opinion is material, or omits to state a fact that in Cowen's opinion is material and is required to be stated therein or is necessary to make the statements therein not misleading.
- (d) <u>Material Changes</u>. Except as contemplated in the Prospectus, or disclosed in the Company's reports filed with the Commission, there shall not have been any material adverse change, on a consolidated basis, in the authorized share capital of the Company or any Material Adverse Change or any development that could reasonably be expected to result in a Material Adverse Change, or any downgrading in or withdrawal of the rating assigned to any of the Company's securities (other than asset backed securities) by any rating organization or a public announcement by any rating organization that it has under surveillance or review its rating of any of the Company's securities (other than asset backed securities), the effect of which, in the case of any such action by a rating organization described above, in the reasonable judgment of Cowen (without relieving the Company of any obligation or liability it may otherwise have), is

so material as to make it impracticable or inadvisable to proceed with the offering of the Placement Shares on the terms and in the manner contemplated in the Prospectus.

- (e) <u>Company Counsel Legal Opinions</u>. Cowen shall have received the opinions of U.S. Company Counsel, Dutch Company Counsel and German Company Counsel required to be delivered pursuant to <u>Section 7(n)</u> on or before the date on which such delivery of such opinion is required pursuant to <u>Section 7(n)</u>.
- (f) <u>Cowen Counsel Legal Opinion</u>. Cowen shall have received from Covington & Burling LLP, counsel for Cowen, such opinion or opinions, on or before the date on which the delivery of the U.S. Company Counsel, Dutch Company Counsel and German Company Counsel opinions are required pursuant to <u>Section 7(n)</u>, with respect to such matters as Cowen may reasonably require, and the Company shall have furnished to such counsel such documents as they request for enabling them to pass upon such matters.
- (g) <u>Comfort Letter</u>. Cowen shall have received the Comfort Letter required to be delivered pursuant to <u>Section 7(o)</u> on or before the date on which such delivery of such Comfort Letter is required pursuant to <u>Section 7(o)</u>.
- (h) Representation Certificate. Cowen shall have received the certificate required to be delivered pursuant to Section 7(m) on or before the date on which delivery of such certificate is required pursuant to Section 7(m).
- (i) <u>Secretary's Certificate</u>. On or prior to the First Delivery Date, Cowen shall have received a certificate, signed on behalf of the Company by its corporate Secretary, in form and substance satisfactory to Cowen and its counsel.
 - (j) No Suspension. Trading in the Common Shares shall not have been suspended on Nasdaq.
- (k) Other Materials. On each date on which the Company is required to deliver a certificate pursuant to Section 7(m), the Company shall have furnished to Cowen such appropriate further information, certificates and documents as Cowen may have reasonably requested. All such opinions, certificates, letters and other documents shall have been in compliance with the provisions hereof. The Company will furnish Cowen with such conformed copies of such opinions, certificates, letters and other documents as Cowen shall have reasonably requested.
- (l) <u>Securities Act Filings Made</u>. All filings with the Commission required by Rule 424 under the Securities Act to have been filed prior to the issuance of any Placement Notice hereunder shall have been made within the applicable time period prescribed for such filing by Rule 424.

- (m) <u>Approval for Listing</u>. The Placement Shares shall either have been (i) approved for listing on Nasdaq, subject only to notice of issuance, or (ii) the Company shall have filed an application for listing of the Placement Shares on Nasdaq at, or prior to, the issuance of any Placement Notice.
 - (n) No Termination Event. There shall not have occurred any event that would permit Cowen to terminate this Agreement pursuant to Section 11(a).
 - 9. <u>Indemnification and Contribution</u>.
- (a) Company Indemnification. The Company agrees to indemnify and hold harmless Cowen, the directors, officers, partners, employees and agents of Cowen and each person, if any, who (i) controls Cowen within the meaning of Section 15 of the Securities Act or Section 20 of the Exchange Act, or (ii) is controlled by or is under common control with Cowen (a "Cowen Affiliate") from and against any and all losses, claims, liabilities, expenses and damages (including, but not limited to, any and all reasonable investigative, legal and other expenses incurred in connection with, and any and all amounts paid in settlement (in accordance with Section 9(c)) of, any action, suit or proceeding between any of the indemnified parties and any indemnifying parties or between any indemnified party and any third party, or otherwise, or any claim asserted), as and when incurred, to which Cowen, or any such person, may become subject under the Securities Act, the Exchange Act or other federal or state statutory law or regulation, at common law or otherwise, insofar as such losses, claims, liabilities, expenses or damages arise out of or are based, directly or indirectly, on (x) any untrue statement or alleged untrue statement of a material fact contained in the Registration Statement or the Prospectus or any amendment or supplement to the Registration Statement or the Prospectus or in any free writing prospectus or in any application or other document executed by or on behalf of the Company or based on written information furnished by or on behalf of the Company filed in any jurisdiction in order to qualify the Common Shares under the securities laws thereof or filed with the Commission, (y) the omission or alleged omission to state in any such document a material fact required to be stated in it or necessary to make the statements in it not misleading or (z) any breach by any of the indemnifying parties of any of their respective representations, warranties and agreements contained in this Agreement; provided, however, that this indemnity agreement shall not apply to the extent that such loss, claim, liability, expense or damage arises from the sale of the Placement Shares pursuant to this Agreement and is caused directly or indirectly by an untrue statement or omission made in reliance upon and in conformity with the Agent's Information. This indemnity agreement will be in addition to any liability that the Company might otherwise have.
- (b) <u>Cowen Indemnification</u>. Cowen agrees to indemnify and hold harmless the Company and its directors and each officer and director of the Company that signed the Registration Statement, and each person, if any, who (i) controls the Company within the meaning of Section 15 of the Securities Act or Section 20 of the Exchange Act or (ii) is controlled by or is under common control with the Company (a "<u>Company Affiliate</u>") against any and all loss, liability, claim, damage and expense described in the indemnity contained in <u>Section 9(a)</u>, as incurred, but only with respect to untrue statements or omissions, or alleged untrue statements or omissions, made in the Registration Statement (or any amendments thereto) or the Prospectus (or any amendment or supplement thereto) in reliance upon and in conformity with the Agent's Information.

(c) Procedure. Any party that proposes to assert the right to be indemnified under this Section 9 will, promptly after receipt of notice of commencement of any action against such party in respect of which a claim is to be made against an indemnifying party or parties under this Section 9, notify each such indemnifying party in writing of the commencement of such action, enclosing a copy of all papers served, but the omission so to notify such indemnifying party will not relieve the indemnifying party from (i) any liability that it might have to any indemnified party otherwise than under this Section 9 and (ii) any liability that it may have to any indemnified party under the foregoing provision of this Section 9 unless, and only to the extent that, such omission results in the forfeiture of substantive rights or defenses by the indemnifying party. If any such action is brought against any indemnified party and it notifies the indemnifying party of its commencement, the indemnifying party will be entitled to participate in and, to the extent that it elects by delivering written notice to the indemnified party promptly after receiving notice of the commencement of the action from the indemnified party, jointly with any other indemnifying party similarly notified, to assume the defense of the action, with counsel reasonably satisfactory to the indemnified party, and after notice from the indemnifying party to the indemnified party of its election to assume the defense, the indemnifying party will not be liable to the indemnified party for any legal or other expenses except as provided below and except for the reasonable costs of investigation subsequently incurred by the indemnified party in connection with the defense. The indemnified party will have the right to employ its own counsel in any such action, but the fees, expenses and other charges of such counsel will be at the expense of such indemnified party unless (1) the employment of counsel by the indemnified party has been authorized in writing by the indemnifying party, (2) the indemnified party has reasonably concluded (based on advice of counsel) that there may be legal defenses available to it or other indemnified parties that are different from or in addition to those available to the indemnifying party, (3) a conflict or potential conflict exists (based on advice of counsel to the indemnified party) between the indemnified party and the indemnifying party (in which case the indemnifying party will not have the right to direct the defense of such action on behalf of the indemnified party) or (4) the indemnifying party has not in fact employed counsel to assume the defense of such action within a reasonable time after receiving notice of the commencement of the action, in each of which cases the reasonable fees, disbursements and other charges of counsel will be at the expense of the indemnifying party or parties. It is understood that the indemnifying party or parties shall not, in connection with any proceeding or related proceedings in the same jurisdiction, be liable for the reasonable fees, disbursements and other charges of more than one separate firm admitted to practice in such jurisdiction at any one time for all such indemnified party or parties. All such fees, disbursements and other charges will be reimbursed by the indemnifying party promptly after the indemnifying party receives a written invoice relating to fees, disbursements and other charges in reasonable detail. An indemnifying party will not, in any event, be liable for any settlement of any action or claim effected without its written consent. No indemnifying party shall, without the prior written consent of each indemnified party, settle or compromise or consent to the entry of any judgment in any pending or threatened claim, action or proceeding relating to the matters contemplated by this Section 9 (whether or not any indemnified party is a party thereto), unless such settlement, compromise or consent (1) includes an unconditional release of each indemnified party from all liability arising or that may arise out of such claim, action or proceeding and (2) does not include a statement as to or an admission of fault, culpability or a failure to act by or on behalf of any indemnified party.

(d) Contribution. In order to provide for just and equitable contribution in circumstances in which the indemnification provided for in the foregoing paragraphs of this Section 9 is applicable in accordance with its terms but for any reason is held to be unavailable from the Company or Cowen, the Company and Cowen will contribute to the total losses, claims, liabilities, expenses and damages (including any investigative, legal and other expenses reasonably incurred in connection with, and any amount paid in settlement of, any action, suit or proceeding or any claim asserted, but after deducting any contribution received by the Company from persons other than Cowen, such as persons who control the Company within the meaning of the Securities Act, officers of the Company who signed the Registration Statement and directors of the Company, who also may be liable for contribution) to which the Company and Cowen may be subject in such proportion as shall be appropriate to reflect the relative benefits received by the Company on the one hand and Cowen on the other. The relative benefits received by the Company on the one hand and Cowen on the other hand shall be deemed to be in the same proportion as the total Net Proceeds from the sale of the Placement Shares (before deducting expenses) received by the Company bear to the total compensation received by Cowen (before deducting expenses) from the sale of Placement Shares on behalf of the Company. If, but only if, the allocation provided by the foregoing sentence is not permitted by applicable law, the allocation of contribution shall be made in such proportion as is appropriate to reflect not only the relative benefits referred to in the foregoing sentence but also the relative fault of the Company, on the one hand, and Cowen, on the other, with respect to the statements or omission that resulted in such loss, claim, liability, expense or damage, or action in respect thereof, as well as any other relevant equitable considerations with respect to such offering. Such relative fault shall be determined by reference to, among other things, whether the untrue or alleged untrue statement of a material fact or omission or alleged omission to state a material fact relates to information supplied by the Company or Cowen, the intent of the parties and their relative knowledge, access to information and opportunity to correct or prevent such statement or omission. The Company and Cowen agree that it would not be just and equitable if contributions pursuant to this Section 9(d) were to be determined by pro rata allocation or by any other method of allocation that does not take into account the equitable considerations referred to herein. The amount paid or payable by an indemnified party as a result of the loss, claim, liability, expense, or damage, or action in respect thereof, referred to above in this Section 9(d) shall be deemed to include, for the purpose of this Section 9(d), any legal or other expenses reasonably incurred by such indemnified party in connection with investigating or defending any such action or claim to the extent consistent with Section 9(c) hereof. Notwithstanding the foregoing provisions of this Section 9(d), Cowen shall not be required to contribute any amount in excess of the commissions received by it under this Agreement and no person found guilty of fraudulent misrepresentation (within the meaning of Section 11(f) of the Securities Act) will be entitled to contribution from any person who was not guilty of such fraudulent misrepresentation. For purposes of this Section 9(d), any person who controls a party to this Agreement within the meaning of the Securities Act, and any officers, directors, partners, employees or agents of Cowen, will have the same rights to contribution as that party, and each officer and director of the Company who signed the Registration Statement will have the same rights to contribution as the Company, subject in each case to the provisions hereof. Any party entitled to contribution, promptly after receipt of notice of commencement of any action against such party in respect of which a claim for contribution may be made under this Section 9(d), will notify any such party or parties from whom contribution may be sought, but the omission to so notify will not relieve that party or parties from whom contribution may be sought from any other obligation it or they may have under this

Section $9(\underline{d})$ except to the extent that the failure to so notify such other party materially prejudiced the substantive rights or defenses of the party from whom contribution is sought. Except for a settlement entered into pursuant to the last sentence of Section $9(\underline{c})$ hereof, no party will be liable for contribution with respect to any action or claim settled without its written consent if such consent is required pursuant to Section $9(\underline{c})$ hereof.

10. <u>Representations and Agreements to Survive Delivery.</u> The indemnity and contribution agreements contained in <u>Section 9</u> of this Agreement and all representations and warranties of the Company herein or in certificates delivered pursuant hereto shall survive, as of their respective dates, regardless of (i) any investigation made by or on behalf of Cowen, any controlling persons, or the Company (or any of their respective officers, directors or controlling persons), (ii) delivery and acceptance of the Placement Shares and payment therefor or (iii) any termination of this Agreement.

11. <u>Termination.</u>

- (a) Cowen shall have the right by giving written notice as hereinafter specified at any time to terminate this Agreement if (i) any Material Adverse Change, or any development that could reasonably be expected to result in a Material Adverse Change has occurred that, in the reasonable judgment of Cowen, may materially impair the ability of Cowen to sell the Placement Shares hereunder, (ii) the Company shall have failed, refused or been unable to perform any agreement on its part to be performed hereunder; *provided*, *however*, in the case of any failure of the Company to deliver (or cause another person to deliver) any certification, opinion, or letter required under <u>Sections 7(m)</u>, <u>7(n)</u>, or <u>7(o)</u>, Cowen's right to terminate shall not arise unless such failure to deliver (or cause to be delivered) continues for more than thirty (30) days from the date such delivery was required; or (iii) any other condition of Cowen's obligations hereunder is not fulfilled, or (iv), any suspension or limitation of trading in the Placement Shares or in securities generally on Nasdaq shall have occurred. Any such termination shall be without liability of any party to any other party except that the provisions of <u>Section 7(g)</u> (Expenses), <u>Section 9</u> (Indemnification and Contribution), <u>Section 10</u> (Representations and Agreements to Survive Delivery), <u>Section 16</u> (Applicable Law; Consent to Jurisdiction) and <u>Section 17</u> (Waiver of Jury Trial) hereof shall remain in full force and effect notwithstanding such termination. If Cowen elects to terminate this Agreement as provided in this <u>Section 11(a)</u>, Cowen shall provide the required notice as specified in <u>Section 12</u> (Notices).
- (b) The Company shall have the right, by giving ten (10) days' notice as hereinafter specified to terminate this Agreement in its sole discretion at any time after the date of this Agreement. Any such termination shall be without liability of any party to any other party except that the provisions of <u>Section 7(g)</u>, <u>Section 9</u>, <u>Section 10</u>, <u>Section 16</u> and <u>Section 17</u> hereof shall remain in full force and effect notwithstanding such termination.
- (c) Cowen shall have the right, by giving ten (10) days' notice as hereinafter specified to terminate this Agreement in its sole discretion at any time after the date of this Agreement. Any such termination shall be without liability of any party to any other party except that the provisions of Section 7(g), Section 9, Section 10, Section 16 and Section 17 hereof shall remain in full force and effect notwithstanding such termination.

- (d) Unless earlier terminated pursuant to this <u>Section 11</u>, this Agreement shall automatically terminate upon the issuance and sale of all of the Placement Shares through Cowen on the terms and subject to the conditions set forth herein; *provided* that the provisions of <u>Section 7(g)</u>, <u>Section 9</u>, <u>Section 10</u>, <u>Section 17</u> hereof shall remain in full force and effect notwithstanding such termination.
- (e) This Agreement shall remain in full force and effect unless terminated pursuant to <u>Sections 11(a)</u>, (b), (c), or (d) above or otherwise by mutual agreement of the parties; *provided*, *however*, that any such termination by mutual agreement shall in all cases be deemed to provide that <u>Section 7(g)</u>, <u>Section 9</u>, <u>Section 10</u>, <u>Section 16</u> and <u>Section 17</u> shall remain in full force and effect.
- (f) Any termination of this Agreement shall be effective on the date specified in such notice of termination; *provided, however,* that such termination shall not be effective until the close of business on the date of receipt of such notice by Cowen or the Company, as the case may be. If such termination shall occur prior to the Settlement Date for any sale of Placement Shares, such Placement Shares shall settle in accordance with the provisions of this Agreement.
- (g) In the event of termination of this Agreement prior to the sale of any Placement Shares, Cowen shall be entitled only to payment by the Company of the expenses set forth in Section 7(g) of this Agreement and reimbursement of its out-of-pocket accountable, bona fide expenses actually incurred.
- 12. Notices. All notices or other communications required or permitted to be given by any party to any other party pursuant to the terms of this Agreement shall be in writing, unless otherwise specified in this Agreement, and if sent to Cowen, shall be delivered to Cowen at Cowen and Company, LLC, 599 Lexington Avenue, New York, NY 10022, fax no. 646-562-1124, Attention: General Counsel with a copy to Covington & Burling LLP, fax no. 646-441-9111, attention: Eric W. Blanchard; or if sent to the Company, shall be delivered to Affimed N.V., Technologiepark, Im Neuenheimer Feld 582, 69120 Heidelberg, Germany, fax no. 011 49 6221-65307-77, attention: Florian Fischer with a copy to Davis Polk & Wardwell LLP, fax no. 212-701-5762, attention: Sophia Hudson. Each party to this Agreement may change such address for notices by sending to the parties to this Agreement written notice of a new address for such purpose. Each such notice or other communication shall be deemed given (i) when delivered personally or by verifiable facsimile transmission (with an original to follow) on or before 4:30 p.m., New York City time, on a Business Day (as defined below), or, if such day is not a Business Day actually received if deposited in the Rusiness Day after timely delivery to a nationally-recognized overnight courier and (iii) on the Business Day actually received if deposited in the U.S. mail (certified or registered mail, return receipt requested, postage prepaid). For purposes of this Agreement, "Business Day." shall mean any day on which the Nasdaq and commercial banks in the City of New York are open for business. An electronic communication ("Electronic Notice") shall be deemed written notice for purposes of this Section 12 if sent to the electronic mail address specified by the receiving party under separate cover and confirmed by such receiving party in writing (including via email or fax). Any party receiving Electronic Notice may request and shall be entitled to receive the notice on paper, in a nonelectronic form ("None

- 13. <u>Successors and Assigns</u>. This Agreement shall inure to the benefit of and be binding upon the Company and Cowen and their respective successors and the affiliates, controlling persons, officers and directors referred to in <u>Section 9</u> hereof. References to any of the parties contained in this Agreement shall be deemed to include the successors and permitted assigns of such party. Nothing in this Agreement, express or implied, is intended to confer upon any party other than the parties hereto or their respective successors and permitted assigns any rights, remedies, obligations or liabilities under or by reason of this Agreement, except as expressly provided in this Agreement. Neither party may assign its rights or obligations under this Agreement without the prior written consent of the other party; *provided*, *however*, that Cowen may assign its rights and obligations hereunder to an affiliate of Cowen without obtaining the Company's consent.
- 14. <u>Adjustments for Share Splits</u>. The parties acknowledge and agree that all share-related numbers contained in this Agreement shall be adjusted to take into account any share split, share dividend or similar event effected with respect to the Common Shares.
- 15. Entire Agreement; Amendment; Severability. This Agreement (including all schedules and exhibits attached hereto and Placement Notices issued pursuant hereto) constitutes the entire agreement and supersedes all other prior and contemporaneous agreements and undertakings, both written and oral, among the parties hereto with regard to the subject matter hereof. Neither this Agreement nor any term hereof may be amended except pursuant to a written instrument executed by the Company and Cowen. In the event that any one or more of the provisions contained herein, or the application thereof in any circumstance, is held invalid, illegal or unenforceable as written by a court of competent jurisdiction, then such provision shall be given full force and effect to the fullest possible extent that it is valid, legal and enforceable, and the remainder of the terms and provisions herein shall be construed as if such invalid, illegal or unenforceable term or provision was not contained herein, but only to the extent that giving effect to such provision and the remainder of the terms and provisions hereof shall be in accordance with the intent of the parties as reflected in this Agreement.
- Applicable Law; Consent to Jurisdiction; Currency Provisions. This Agreement shall be governed by and construed in accordance with the internal laws of the State of New York applicable to agreements made and to be performed in such state. Any legal suit, action or proceeding arising out of or based upon this Agreement or the transactions contemplated hereby ("Related Proceedings") may be instituted in the federal courts of the United States of America located in the Borough of Manhattan in the City of New York (collectively, the "Specified Courts"), and each party irrevocably submits to the exclusive jurisdiction (except for proceedings instituted in regard to the enforcement of a judgment of any such court (a "Related Judgment"), as to which such jurisdiction is non-exclusive) of such courts in any such suit, action or proceeding. Service of any process, summons, notice or document by mail to such party's address set forth above shall be effective service of process for any suit, action or other proceeding brought in any such court. The parties irrevocably and unconditionally waive any objection to the laying of venue of any suit, action or other proceeding brought in any such court has been brought in an inconvenient forum. The Company and each other party not located in the United States has irrevocably appointed National Corporate Research, Ltd., which currently maintains a New York

City office at 10 East 40th Street, New York, NY 10016, United States of America, as its agent to receive service of process or other legal summons for purposes of any such suit, action or proceeding that may be instituted in any state or federal court in the Borough of Manhattan in the City of New York, United States of America.

With respect to any Related Proceeding, each party irrevocably waives, to the fullest extent permitted by applicable law, all immunity (whether on the basis of sovereignty or otherwise) from jurisdiction, service of process, attachment (both before and after judgment) and execution to which it might otherwise be entitled in the Specified Courts, and with respect to any Related Judgment, each party waives any such immunity in the Specified Courts or any other court of competent jurisdiction, and will not raise or claim or cause to be pleaded any such immunity at or in respect of any such Related Proceeding or Related Judgment, including, without limitation, any immunity pursuant to the United States Foreign Sovereign Immunities Act of 1976, as amended.

The obligations of the Company pursuant to this Agreement in respect of any sum due to Cowen shall, notwithstanding any judgment in a currency other than United States dollars, not be discharged until the first business day, following receipt by Cowen of any sum adjudged to be so due in such other currency, on which Cowen may in accordance with normal banking procedures purchase United States dollars with such other currency. If the United States dollars so purchased are less than the sum originally due to Cowen in United States dollars hereunder, the Company agrees as a separate obligation and notwithstanding any such judgment, to indemnify Cowen against such loss. If the United States dollars so purchased are greater than the sum originally due to Cowen hereunder, Cowen agrees to pay to the Company an amount equal to the excess of the dollars so purchased over the sum originally due to Cowen hereunder.

All payments made by the Company under this Agreement shall be made free and clear of any withholding or deduction for or on account of any present or future taxes, duties, assessments or governmental charges of whatever nature (including any amounts that result from the payment of fees, compensation or reimbursement of costs contemplated by this Agreement) imposed or levied by or on behalf of the Netherlands or by any department, agency or other political subdivision or any taxing authority thereof or therein, and all interest, penalties or similar liabilities with respect thereto (collectively, "Dutch Taxes"), unless such deduction or withholding is required by law. If any Dutch Taxes are required by law to be deducted or withheld by the Company in connection with such payment or repurchase, the Company will increase the amount to be paid to Cowen so that the full amount of such payment is received by Cowen, provided that the Company will not be required to pay any such additional amounts to the extent that the obligation to withhold or deduct any amounts arises as a result of any present or former connection between Cowen and the relevant jurisdiction other than any such connection arising solely as a result of the transaction described in this agreement.

- 17. <u>Waiver of Jury Trial</u>. The Company and Cowen each hereby irrevocably waives any right it may have to a trial by jury in respect of any claim based upon or arising out of this Agreement or any transaction contemplated hereby.
 - 18. <u>Absence of Fiduciary Relationship</u>. The Company acknowledges and agrees that:

- (a) Cowen has been retained solely to act as sales agent in connection with the sale of the Common Shares and that no fiduciary, advisory or agency relationship between the Company and Cowen has been created in respect of any of the transactions contemplated by this Agreement, irrespective of whether Cowen has advised or is advising the Company on other matters;
- (b) the Company is capable of evaluating and understanding and understands and accepts the terms, risks and conditions of the transactions contemplated by this Agreement;
- (c) the Company has been advised that Cowen and its affiliates are engaged in a broad range of transactions which may involve interests that differ from those of the Company and that Cowen has no obligation to disclose such interests and transactions to the Company by virtue of any fiduciary, advisory or agency relationship; and
- (d) the Company waives, to the fullest extent permitted by law, any claims it may have against Cowen, for breach of fiduciary duty or alleged breach of fiduciary duty and agrees that Cowen shall have no liability (whether direct or indirect) to the Company in respect of such a fiduciary claim or to any person asserting a fiduciary duty claim on behalf of or in right of the Company, including shareholders, partners, employees or creditors of the Company.
- 19. <u>Counterparts</u>. This Agreement may be executed in two or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. Delivery of an executed Agreement by one party to the other may be made by facsimile or electronic transmission.
 - 20. Definitions. As used in this Agreement, the following term has the meaning set forth below:
- (a) "Applicable Time" means the date of this Agreement, each Representation Date, the date on which a Placement Notice is given, and any date on which Placement Shares are sold hereunder.
 - (b) "Agent's Information" means, solely the following information in the Prospectus: the third sentence in the eighth paragraph under the caption "Plan of Distribution" in the Prospectus.

[Remainder of Page Intentionally Blank]

If the foregoing correctly sets forth the understanding between the Company and Cowen, please so indicate in the space provided below for that purpose, whereupon this letter shall constitute a binding agreement between the Company and Cowen.

Very truly yours,

COWEN AND COMPANY, LLC

By: /s/ Andy Mertz

Name: Andy Mertz Title: Managing Director

ACCEPTED as of the date first-above written:

AFFIMED N.V.

By: /s/ Adi Hoess

Name: Adi Hoess

Title: Chief Executive Officer

By: /s/ Florian Fischer

Name: Florian Fischer Title: Chief Financial Officer

FORM OF PLACEMENT NOTICE

From:		
Cc:	[]	
To:	[]	
Subject:	Cowen at the Market Offerin	g—Placement Notice
Gentleme	on.	
Gentienie	en:	
Company nominal	y, LLC (" <u>Cowen</u> ") dated [](the value [] per share, at a n	bject to the conditions contained in the Sales Agreement between Affimed N.V. (the " <u>Company</u> "), and Cowen and e " <u>Agreement</u> "), I hereby request on behalf of the Company that Cowen sell up to [] of the Company's common shares, minimum market price of \$ per share. Sales should begin on the date of this Notice and shall continue until gate sales price of the shares reaches \$].
[The Cor	mpany may include such other	sales parameters as it deems appropriate.]

$\underline{Company}$

Adi Hoess, Chief Executive Officer ($\underline{a.hoess@affimed.com}$)

Florian Fischer, Chief Financial Officer ($\underline{f.fischer@affimed.com}$)

Cowen

Robert Sine, Director (Robert.sine@cowen.com)

William Follis, Director (William.follis@cowen.com)

Compensation

Cowen shall be paid compensation equal to 3% of the gross proceeds from the sales of Common Shares pursuant to the terms of this Agreement.	

Schedule Of Subsidiaries

NAME OF SUBSIDIARY	Jurisdiction of incorporation or organization
AbCheck s.r.o.	Czech Republic
Affimed GmbH	Germany
Affimed, Inc.	Delaware

Free Writing Prospectuses

None.

[FORM OF U.S. COMPANY COUNSEL OPINION AND NEGATIVE ASSURANCE]

[FORM OF DUTCH COMPANY COUNSEL OPINION]

[FORM OF GERMAN COMPANY COUNSEL OPINION]

OFFICER CERTIFICATE

The undersigned, the duly qualified and elected, of Affimed N.V. (" <u>Company</u> "), a D capacity and on behalf of the Company, pursuant to <u>Section 7(m)</u> of the Sales Agreement dated, 2015 (the " <u>Sal</u> Cowen and Company, LLC, that to the best of the knowledge of the undersigned.	
(i) The representations and warranties of the Company in <u>Section 6</u> of the Sales Agreement (A) to the exsubject to qualifications and exceptions contained therein relating to materiality or Material Adverse Change, are with the same force and effect as if expressly made on and as of the date hereof, except for those representations specific date and which were true and correct as of such date, and (B) to the extent such representations and warranteexceptions, are true and correct in all material respects as of the date hereof as if made on and as of the date expressly made on and as of the date hereof except for those representations and warranties that speak solely as correct as of such date; and	true and correct on and as of the date hereof ons and warranties that speak solely as of a anties are not subject to any qualifications or hereof with the same force and effect as if
(ii) The Company has complied with all agreements and satisfied all conditions on its part to be performed at or prior to the date hereof.	erformed or satisfied pursuant to the Sales
By: Name: Title:	
2	

Affimed N.V.
as the Company
and
[]
as Trustee
Senior Indenture
Dated as of [], []

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SENIOR INDENTURE, dated as of [,], between Affimed N.V., a Dutch public company with limited liability (naamloze
<i>vennootschap</i>), as the Company, and [], as Trustee.	

RECITALS OF THE COMPANY

WHEREAS, the Company has duly authorized the issue from time to time of its senior debentures, notes or other evidences of indebtedness to be issued in one or more series (the "Securities") up to such principal amount or amounts as may from time to time be authorized in accordance with the terms of this Indenture and to provide, among other things, for the authentication, delivery and administration thereof, the Company has duly authorized the execution and delivery of this Indenture; and

WHEREAS, all things necessary to make this Indenture a valid indenture and agreement according to its terms have been done;

NOW, THEREFORE:

In consideration of the premises and the purchases of the Securities by the holders thereof, the Company and the Trustee mutually covenant and agree for the equal and proportionate benefit of the respective holders from time to time of the Securities or of any and all series thereof as follows:

ARTICLE 1

DEFINITIONS AND INCORPORATION BY REFERENCE

Section 1.01. Definitions.

"Affiliate" of any Person means any other Person directly or indirectly controlling or controlled by or under direct or indirect common control with such Person. For the purposes of this definition, "control" (including, with correlative meanings, the terms "controlling", "controlled by" and "under common control with") when used with respect to any Person means the possession, directly or indirectly, of the power to direct or cause the direction of the management and policies of such Person, whether through the ownership of voting securities, by contract or otherwise.

"Agent" means any Registrar, Paying Agent, transfer agent or Authenticating Agent.

"**Board Resolution**" means one or more resolutions of the board of directors of the Company or any authorized committee thereof, certified by the secretary or an assistant secretary to have been duly adopted and to be in full force and effect on the date of certification, and delivered to the Trustee.

"Business Day" means any day, other than a Saturday or Sunday, that is neither a legal holiday nor a day on which banking institutions are authorized or required by law or regulation to close (i) with respect to any Security the interest on which is based on the offered quotations in the interbank Eurodollar market for dollar deposits in London or in The City of New York or (ii) with respect to Securities denominated in a specified currency other than United States dollars, in the principal financial center of the country of the specified currency.

"Commission" means the Securities and Exchange Commission, as from time to time constituted, created under the Exchange Act or, if at any time after the execution of this instrument such Commission is not existing and performing the duties now assigned to it under the Trust Indenture Act, then the body performing such duties at such time.

"Company" means the party named as such in the first paragraph of this Indenture until a successor replaces it pursuant to Article 5 of this Indenture and thereafter means the successor.

- "Corporate Trust Office" means the office of the Trustee at which the corporate trust business of the Trustee shall, at any particular time, be administered, which office is, at the date of this Indenture, located at [].
 - "Default" means any event that is, or after notice or passage of time or both would be, an Event of Default.
- **"Depositary**" means, with respect to the Securities of any series issuable or issued in the form of one or more Registered Global Securities, the Person designated as Depositary by the Company pursuant to Section 2.03 until a successor Depositary shall have become such pursuant to the applicable provisions of this Indenture, and thereafter "**Depositary**" shall mean or include each Person who is then a Depositary hereunder, and if at any time there is more than one such Person, "**Depositary**" as used with respect to the Securities of any such series shall mean the Depositary with respect to the Registered Global Securities of that series.
 - "Exchange Act" means the Securities Exchange Act of 1934, as amended.
 - "Holder" or "Securityholder" means the registered holder of any Security.
- "IFRS" means International Financial Reporting Standards as issued by the International Accounting Standards Board, as in effect as of the date hereof.
- "**Indenture**" means this Indenture as originally executed and delivered or as it may be amended or supplemented from time to time by one or more indentures supplemental to this Indenture entered into pursuant to the applicable provisions of this Indenture and shall include the forms and terms of the Securities of each series established as contemplated pursuant to Sections 2.01 and 2.03.
- "Officer" means, with respect to the Company, the chairman of the board of directors, the president or chief executive officer, any executive vice president, any senior vice president, any vice president, the chief financial officer, the treasurer or any assistant treasurer, or the secretary or any assistant secretary.
- "Officers' Certificate" means a certificate signed in the name of the Company (i) by the chairman of the board of directors, president or chief executive officer, an executive vice president, a senior vice president or a vice president, and (ii) by the chief financial officer, the treasurer or any assistant treasurer, or the secretary or any assistant secretary, and delivered to the Trustee. Each such certificate shall comply with Section 314 of the Trust Indenture Act, if applicable, and include (except as otherwise expressly provided in this Indenture) the statements provided in Section 10.04, if applicable.
- "Opinion of Counsel" means a written opinion signed by legal counsel, who may be an employee of or counsel to the Company, satisfactory to the Trustee. Each such opinion shall comply with Section 314 of the Trust Indenture Act, if applicable, and include the statements provided in Section 10.04, if and to the extent required thereby.
- "**original issue date**" of any Security (or portion thereof) means the earlier of (a) the date of authentication of such Security or (b) the date of any Security (or portion thereof) for which such Security was issued (directly or indirectly) on registration of transfer, exchange or substitution.
- "Original Issue Discount Security" means any Security that provides for an amount less than the Principal amount thereof to be due and payable upon a declaration of acceleration of the maturity thereof pursuant to Section 6.02.
- "**Periodic Offering**" means an offering of Securities of a series from time to time, the specific terms of which Securities, including, without limitation, the rate or rates of interest, if any, thereon, the

stated maturity or maturities thereof and the redemption provisions, if any, with respect thereto, are to be determined by the Company or its agents upon the issuance of such Securities.

- "**Person**" means an individual, a corporation, a partnership, a limited liability company, an association, a trust or any other entity or organization, including a government or political subdivision or an agency or instrumentality thereof.
 - "Principal" of a Security means the principal amount of, and, unless the context indicates otherwise, includes any premium payable on, the Security.
- "**Registered Global Security**" means a Security evidencing all or a part of a series of Securities, issued to the Depositary for such series in accordance with Section 2.02, and bearing the legend prescribed in Section 2.02.
- "Responsible Officer" when used with respect to the Trustee, shall mean an officer of the Trustee in the Corporate Trust Office, having direct responsibility for the administration of this Indenture, and also, with respect to a particular matter, any other officer to whom such matter is referred because of such officer's knowledge of and familiarity with the particular subject.
- "Securities" means any of the securities, as defined in the first paragraph of the recitals hereof, that are authenticated and delivered under this Indenture.
 - "Securities Act" means the Securities Act of 1933, as amended.
- "Subsidiary" means, with respect to any Person, any corporation, association or other business entity of which a majority of the capital stock or other ownership interests having ordinary voting power to elect a majority of the board of directors or other persons performing similar functions are at the time directly or indirectly owned by such Person.
- "**Trustee**" means the party named as such in the first paragraph of this Indenture until a successor replaces it in accordance with the provisions of Article 7 and thereafter shall mean or include each Person who is then a Trustee hereunder, and if at any time there is more than one such Person, "**Trustee**" as used with respect to the Securities of any series shall mean the Trustee with respect to Securities of that series.
- "Trust Indenture Act" means the Trust Indenture Act of 1939, as amended (15 U.S. Code §§ 77aaa-77bbbb), as it may be amended from time to time.
- **"U.S. Government Obligations**" means securities that are (i) direct obligations of the United States of America for the payment of which its full faith and credit is pledged or (ii) obligations of an agency or instrumentality of the United States of America the payment of which is unconditionally guaranteed as a full faith and credit obligation by the United States of America, and shall also include a depository receipt issued by a bank or trust company as custodian with respect to any such U.S. Government Obligation or a specific payment of interest on or principal of any such U.S. Government Obligation held by such custodian for the account of the holder of a depository receipt.
- "Yield to Maturity" means, as the context may require, the yield to maturity (i) on a series of Securities or (ii) if the Securities of a series are issuable from time to time, on a Security of such series, calculated at the time of issuance of such series in the case of clause (i) or at the time of issuance of such Security of such series in the case of clause (ii), or, if applicable, at the most recent redetermination of interest on such series or on such Security, and calculated in accordance with the constant interest method or such other accepted financial practice as is specified in the terms of such Security.

Section 1.02. Other Definitions. Each of the following terms is defined in the section set forth opposite such term:

<u>Term</u>	Section
Authenticating Agent	2.02
cash transaction	7.03
Event of Default	6.01
Judgment Currency	10.15(a)
mandatory sinking fund payment	3.05
optional sinking fund payment	3.05
Paying Agent	2.05
record date	2.04
Registrar	2.05
Required Currency	10.15(a)
Security Register	2.05
self-liquidating paper	7.03
sinking fund payment date	3.05
Surviving Entity	5.01(a)
tranche	2.14

Section 1.03. *Incorporation by Reference of Trust Indenture Act*. Whenever this Indenture refers to a provision of the Trust Indenture Act, the provision is incorporated by reference in and made a part of this Indenture. The following terms used in this Indenture that are defined by the Trust Indenture Act have the following meanings:

"indenture securities" means the Securities;

"indenture security holder" means a Holder or a Securityholder;

"indenture to be qualified" means this Indenture;

"indenture trustee" or "institutional trustee" means the Trustee; and

"obligor" on the indenture securities means the Company or any other obligor on the Securities.

All other terms used in this Indenture that are defined by the Trust Indenture Act, defined by reference in the Trust Indenture Act to another statute or defined by a rule of the Commission and not otherwise defined herein have the meanings assigned to them therein.

Section 1.04. *Rules of Construction*. Unless the context otherwise requires:

- (a) an accounting term not otherwise defined has the meaning assigned to it in accordance with IFRS;
- (b) words in the singular include the plural, and words in the plural include the singular;
- (c) "herein," "hereof" and other words of similar import refer to this Indenture as a whole and not to any particular Article, Section or other subdivision;
 - (d) all references to Sections or Articles refer to Sections or Articles of this Indenture unless otherwise indicated; and
- (e) use of masculine, feminine or neuter pronouns should not be deemed a limitation, and the use of any such pronouns should be construed to include, where appropriate, the other pronouns.

ARTICLE 2 THE SECURITIES

Section 2.01. Form and Dating. The Securities of each series shall be substantially in such form or forms (not inconsistent with this Indenture) as shall be established by or pursuant to one or more Board Resolutions or in one or more indentures supplemental hereto, in each case with such appropriate insertions, omissions, substitutions and other variations as are required or permitted by this Indenture and may have imprinted or otherwise reproduced thereon such legends or endorsements, not inconsistent with the provisions of this Indenture, as may be required to comply with any law, or with any rules of any securities exchange or usage, all as may be determined by the Officers executing such Securities as evidenced by their execution of the Securities.

Section 2.02. *Execution and Authentication*. Two Officers shall execute the Securities for the Company by facsimile or manual signature in the name and on behalf of the Company. If an Officer whose signature is on a Security no longer holds that office at the time the Security is authenticated, the Security shall nevertheless be valid.

The Trustee, at the expense of the Company, may appoint an authenticating agent (the "**Authenticating Agent**") to authenticate Securities. The Authenticating Agent may authenticate Securities whenever the Trustee may do so. Each reference in this Indenture to authentication by the Trustee includes authentication by such Authenticating Agent.

A Security shall not be valid until the Trustee or Authenticating Agent signs, manually or by facsimile, the certificate of authentication on the Security. The signature shall be conclusive evidence that the Security has been authenticated under this Indenture.

At any time and from time to time after the execution and delivery of this Indenture, the Company may deliver Securities of any series executed by the Company to the Trustee for authentication together with the applicable documents referred to below in this Section, and the Trustee shall thereupon authenticate and deliver such Securities to or upon the written order of the Company. In authenticating any Securities of a series, the Trustee shall be entitled to receive prior to the authentication of any Securities of such series, and (subject to Article 7) shall be fully protected in relying upon, unless and until such documents have been superseded or revoked:

- (a) any Board Resolution and/or executed supplemental indenture referred to in Sections 2.01 and 2.03 by or pursuant to which the forms and terms of the Securities of that series were established;
- (b) an Officers' Certificate setting forth the form or forms and terms of the Securities, stating that the form or forms and terms of the Securities of such series have been, or, in the case of a Periodic Offering, will be when established in accordance with such procedures as shall be referred to therein, established in compliance with this Indenture; and
- (c) an Opinion of Counsel substantially to the effect that the form or forms and terms of the Securities of such series have been, or, in the case of a Periodic Offering, will be when established in accordance with such procedures as shall be referred to therein, established in compliance with this Indenture and that the supplemental indenture, to the extent applicable, and Securities have been duly authorized and, if executed and authenticated in accordance with the provisions of the Indenture and delivered to and duly paid for by the purchasers thereof on the date of such opinion, would be entitled to the benefits of the Indenture and would be valid and binding obligations of the Company, enforceable against the Company in accordance with their respective terms, subject to bankruptcy, insolvency, reorganization, receivership, moratorium and other similar laws affecting creditors' rights generally, general principles of equity, and covering such other matters as shall be specified therein and as shall be reasonably requested by the Trustee.

The Trustee shall not be required to authenticate such Securities if the issue of such Securities pursuant to this Indenture will affect the Trustee's own rights, duties or immunities under the Securities and this Indenture or otherwise in a manner which is not reasonably acceptable to the Trustee.

Notwithstanding the provisions of Sections 2.01 and 2.02, if, in connection with a Periodic Offering, all Securities of a series are not to be originally issued at one time, it shall not be necessary to deliver the Board Resolution otherwise required pursuant to Section 2.01 or the written order, Officers' Certificate and Opinion of Counsel otherwise required pursuant to Section 2.02 at or prior to the authentication of each Security of such series if such documents are delivered at or prior to the authentication upon original issuance of the first Security of such series to be issued.

With respect to Securities of a series offered in a Periodic Offering, the Trustee may rely, as to the authorization by the Company of any of such Securities, the forms and terms thereof and the legality, validity, binding effect and enforceability thereof, upon the Opinion of Counsel and the other documents delivered pursuant to Sections 2.01 and 2.02, as applicable, in connection with the first authentication of Securities of such series.

If the Company shall establish pursuant to Section 2.03 that the Securities of a series or a portion thereof are to be issued in the form of one or more Registered Global Securities, then the Company shall execute and the Trustee shall authenticate and deliver one or more Registered Global Securities that (i) shall represent and shall be denominated in an amount equal to the aggregate Principal amount of all of the Securities of such series issued in such form and not yet cancelled, (ii) shall be registered in the name of the Depositary for such Registered Global Security or Securities or the nominee of such Depositary, (iii) shall be delivered by the Trustee to such Depositary or its custodian or pursuant to such Depositary's instructions and (iv) shall (unless provided otherwise in the form of such Security) bear a legend substantially to the following effect: "Unless and until it is exchanged in whole or in part for Securities in definitive registered form, this Security may not be transferred except as a whole by the Depositary to the nominee of the Depositary or by a nominee of the Depositary to the Depositary or another nominee of the Depositary or any such nominee to a successor Depositary or a nominee of such successor Depositary."

Section 2.03. *Amount Unlimited; Issuable in Series*. The aggregate Principal amount of Securities that may be authenticated and delivered under this Indenture is unlimited.

The Securities may be issued in one or more series and each such series shall rank equally and *pari passu* with all other unsecured and unsubordinated debt of the Company. There shall be established in or pursuant to a Board Resolution or one or more indentures supplemental hereto, prior to the initial issuance of Securities of any series, subject to the last sentence of this Section 2.03,

- (a) the designation of the Securities of the series, which shall distinguish the Securities of the series from the Securities of all other series;
- (b) any limit upon the aggregate Principal amount of the Securities of the series that may be authenticated and delivered under this Indenture and any limitation on the ability of the Company to increase such aggregate Principal amount after the initial issuance of the Securities of that series (except for Securities authenticated and delivered upon registration of transfer of, or in exchange for, or in lieu of, or upon redemption of, other Securities of the series pursuant hereto);
 - (c) the date or dates on which the Principal of the Securities of the series is payable (which date or dates may be fixed or extendible);
- (d) the rate or rates (which may be fixed or variable) per annum at which the Securities of the series shall bear interest, if any, the date or dates from which such interest shall accrue, on which such interest shall be payable and on which a record shall be taken for the determination of Holders to whom interest is payable and/or the method by which such rate or rates or date or dates shall be determined;

- (e) if other than as provided in Section 4.02, the place or places where the Principal of and any interest on Securities of the series shall be payable, any Securities of the series may be surrendered for exchange, and notices and demands to or upon the Company in respect of the Securities of the series and this Indenture may be served;
- (f) the right, if any, of the Company to redeem Securities of the series, in whole or in part, at its option and the period or periods within which, the price or prices at which and any terms and conditions upon which Securities of the series may be so redeemed, pursuant to any sinking fund or otherwise;
- (g) the obligation, if any, of the Company to redeem, purchase or repay Securities of the series pursuant to any mandatory redemption, sinking fund or analogous provisions or at the option of a Holder thereof and the price or prices at which and the period or periods within which and any of the terms and conditions upon which Securities of the series shall be redeemed, purchased or repaid, in whole or in part, pursuant to such obligation;
- (h) if other than denominations of \$2,000 and any higher integral multiple of \$1,000, the denominations in which Securities of the series shall be issuable;
- (i) if other than the Principal amount thereof, the portion of the Principal amount of Securities of the series which shall be payable upon declaration of acceleration of the maturity thereof;
- (j) if other than the coin or currency in which the Securities of the series are denominated, the coin or currency in which payment of the Principal of or interest on the Securities of the series shall be payable or if the amount of payments of principal of and/or interest on the Securities of the series may be determined with reference to an index based on a coin or currency other than that in which the Securities of the series are denominated, the manner in which such amounts shall be determined;
- (k) if other than the currency of the United States of America, the currency or currencies, including composite currencies, in which payment of the Principal of and interest on the Securities of the series shall be payable, and the manner in which any such currencies shall be valued against other currencies in which any other Securities shall be payable;
 - (1) whether the Securities of the series or any portion thereof will be issuable as Registered Global Securities;
 - (m) whether the Securities of the series may be exchangeable for and/or convertible into the common stock of the Company or any other security;
- (n) whether and under what circumstances the Company will pay additional amounts on the Securities of the series held by a person who is not a U.S. person in respect of any tax, assessment or governmental charge withheld or deducted and, if so, whether the Company will have the option to redeem such Securities rather than pay such additional amounts;
- (o) if the Securities of the series are to be issuable in definitive form (whether upon original issue or upon exchange of a temporary Security of such series) only upon receipt of certain certificates or other documents or satisfaction of other conditions, the form and terms of such certificates, documents or conditions;
- (p) any trustees, depositaries, authenticating or paying agents, transfer agents or the registrar or any other agents with respect to the Securities of the series;
- (q) provisions, if any, for the defeasance of the Securities of the series (including provisions permitting defeasance of less than all Securities of the series), which provisions may be in addition to, in substitution for, or in modification of (or any combination of the foregoing) the provisions of Article 8;

- (r) if the Securities of the series are issuable in whole or in part as one or more Registered Global Securities, the identity of the Depositary or common Depositary for such Registered Global Security or Securities;
 - (s) any other or alternative Events of Default or covenants with respect to the Securities of the series; and
 - (t) any other terms of the Securities of the series.

All Securities of any one series shall be substantially identical, except as to date and denomination, except in the case of any Periodic Offering and except as may otherwise be provided by or pursuant to the Board Resolution referred to above or as set forth in any such indenture supplemental hereto. All Securities of any one series need not be issued at the same time and may be issued from time to time, consistent with the terms of this Indenture, if so provided by or pursuant to such Board Resolution or in any such indenture supplemental hereto and any forms and terms of Securities to be issued from time to time may be completed and established from time to time prior to the issuance thereof by procedures described in such Board Resolution or supplemental indenture.

Unless otherwise expressly provided with respect to a series of Securities, the aggregate principal amount of a series of Securities may be increased and additional Securities of such series may be issued up to the maximum aggregate principal amount authorized with respect to such series as increased.

Section 2.04. *Denomination and Date of Securities; Payments of Interest*. The Securities of each series shall be issuable in denominations established as contemplated by Section 2.03 or, if not so established with respect to Securities of any series, in denominations of \$2,000 and any higher integral multiple of \$1,000. The Securities of each series shall be numbered, lettered or otherwise distinguished in such manner or in accordance with such plan as the Officers of the Company executing the same may determine, as evidenced by their execution thereof.

Unless otherwise specified with respect to a series of Securities, each Security shall be dated the date of its authentication. The Securities of each series shall bear interest, if any, from the date, and such interest shall be payable on the dates, established as contemplated by Section 2.03.

The person in whose name any Security of any series is registered at the close of business on any record date applicable to a particular series with respect to any interest payment date for such series shall be entitled to receive the interest, if any, payable on such interest payment date notwithstanding any transfer or exchange of such Security subsequent to the record date and prior to such interest payment date, except if and to the extent the Company shall default in the payment of the interest due on such interest payment date for such series, in which case the provisions of Section 2.13 shall apply. The term "record date" as used with respect to any interest payment date (except a date for payment of defaulted interest) for the Securities of any series shall mean the date specified as such in the terms of the Securities of such series established as contemplated by Section 2.03, or, if no such date is so established, the fifteenth day next preceding such interest payment date, whether or not such record date is a Business Day.

Section 2.05. *Registrar and Paying Agent; Agents Generally*. The Company shall maintain an office or agency where Securities may be presented for registration, registration of transfer or for exchange (the "**Registrar**") and an office or agency where Securities may be presented for payment (the "**Paying Agent**"), which shall be in the United States of America. The Company shall cause the Registrar to keep a register of the Securities and of their registration, transfer and exchange (the "**Security Register**"). The Company may have one or more additional Paying Agents or transfer agents with respect to any series.

The Company shall enter into an appropriate agency agreement with any Agent not a party to this Indenture. The agreement shall implement the provisions of this Indenture and the Trust Indenture Act that relate to such Agent. The Company shall give prompt written notice to the Trustee of the name and address of any Agent and any change in the name or address of an Agent. If the Company fails to maintain a

Registrar or Paying Agent, the Trustee shall act as such. The Company may remove any Agent upon written notice to such Agent and the Trustee; provided that no such removal shall become effective until (i) the acceptance of an appointment by a successor Agent to such Agent as evidenced by an appropriate agency agreement entered into by the Company and such successor Agent and delivered to the Trustee or (ii) notification to the Trustee that the Trustee shall serve as such Agent until the appointment of a successor Agent in accordance with clause (i) of this proviso. The Company or any Affiliate of the Company may act as Paying Agent or Registrar; provided that neither the Company nor an Affiliate of the Company shall act as Paying Agent in connection with the defeasance of the Securities or the discharge of this Indenture under Article 8.

The Company initially appoints the Trustee as Registrar, Paying Agent and Authenticating Agent. If, at any time, the Trustee is not the Registrar, the Registrar shall make available to the Trustee ten days prior to each interest payment date and at such other times as the Trustee may reasonably request the names and addresses of the Holders as they appear in the Security Register.

Section 2.06. Paying Agent to Hold Money in Trust. Not later than 10:00 a.m. New York City time on each due date of any Principal or interest on any Securities, the Company shall deposit with the Paying Agent money in immediately available funds sufficient to pay such Principal or interest. The Company shall require each Paying Agent other than the Trustee to agree in writing that such Paying Agent shall hold in trust for the benefit of the Holders of such Securities or the Trustee all money held by the Paying Agent for the payment of Principal of and interest on such Securities and shall promptly notify the Trustee of any default by the Company in making any such payment. The Company at any time may require a Paying Agent to pay all money held by it to the Trustee and account for any funds disbursed, and the Trustee may at any time during the continuance of any payment default, upon written request to a Paying Agent, require such Paying Agent to pay all money held by it to the Trustee and to account for any funds disbursed. Upon doing so, the Paying Agent shall have no further liability for the money so paid over to the Trustee. If the Company or any affiliate of the Company acts as Paying Agent, it will, on or before each due date of any Principal or interest on any Securities, segregate and hold in a separate trust fund for the benefit of the Holders thereof a sum of money sufficient to pay such Principal or interest so becoming due until such sum of money shall be paid to such Holders or otherwise disposed of as provided in this Indenture, and will promptly notify the Trustee in writing of its action or failure to act as required by this Section.

Section 2.07. *Transfer and Exchange*. At the option of the Holder thereof, Securities of any series (other than a Registered Global Security, except as set forth below) may be exchanged for a Security or Securities of such series and tenor having authorized denominations and an equal aggregate Principal amount, upon surrender of such Securities to be exchanged at the agency of the Company that shall be maintained for such purpose in accordance with Section 2.05 and upon payment, if the Company shall so require, of the charges hereinafter provided. Whenever any Securities are so surrendered for exchange, the Company shall execute, and the Trustee shall authenticate and deliver, the Securities which the Holder making the exchange is entitled to receive.

Upon surrender for registration of transfer of any Security of a series at the agency of the Company that shall be maintained for that purpose in accordance with Section 2.05 and upon payment, if the Company shall so require, of the charges hereinafter provided, the Company shall execute, and the Trustee shall authenticate and deliver, in the name of the designated transferee or transferees, one or more new Securities of the same series, of any authorized denominations and of like tenor and aggregate Principal amount.

All Securities presented for registration of transfer, exchange, redemption or payment shall be duly endorsed by, or be accompanied by a written instrument or instruments of transfer in form satisfactory to the Company and the Trustee duly executed by, the holder or his attorney duly authorized in writing.

The Company may require payment of a sum sufficient to cover any tax or other governmental charge that may be imposed in connection with any exchange or registration of transfer of Securities. No service charge shall be made for any such transaction.

Notwithstanding any other provision of this Section 2.07, unless and until it is exchanged in whole or in part for Securities in definitive registered form, a Registered Global Security representing all or a portion of the Securities of a series may not be transferred except as a whole by the Depositary for such series to a nominee of such Depositary or by a nominee of such Depositary or another nominee of such Depositary or by such Depositary or any such nominee to a successor Depositary for such series or a nominee of such successor Depositary.

If at any time the Depositary for any Registered Global Securities of any series notifies the Company that it is unwilling or unable to continue as Depositary for such Registered Global Securities or if at any time the Depositary for such Registered Global Securities shall no longer be eligible under applicable law, the Company shall appoint a successor Depositary eligible under applicable law with respect to such Registered Global Securities. If a successor Depositary eligible under applicable law for such Registered Global Securities is not appointed by the Company within 90 days after the Company receives such notice or becomes aware of such ineligibility, the Company will execute, and the Trustee, upon receipt of the Company's order for the authentication and delivery of definitive Securities of such series and tenor, will authenticate and deliver certificated Securities of such series and tenor, in any authorized denominations, in an aggregate Principal amount equal to the Principal amount of such Registered Global Securities, in exchange for such Registered Global Securities.

The Company may at any time and in its sole discretion and subject to the procedures of the Depositary determine that any Registered Global Securities of any series shall no longer be maintained in global form. In such event the Company will execute, and the Trustee, upon receipt of the Company's order for the authentication and delivery of definitive Securities of such series and tenor, will authenticate and deliver, certificated Securities of such series and tenor in any authorized denominations, in an aggregate Principal amount equal to the Principal amount of such Registered Global Securities, in exchange for such Registered Global Securities.

Any time the Securities of any series are not in the form of Registered Global Securities pursuant to the preceding two paragraphs, the Company agrees to supply the Trustee with a reasonable supply of certificated Securities without the legend required by Section 2.02 and the Trustee agrees to hold such Securities in safekeeping until authenticated and delivered pursuant to the terms of this Indenture.

If established by the Company pursuant to Section 2.03 with respect to any Registered Global Security, the Depositary for such Registered Global Security may surrender such Registered Global Security in exchange in whole or in part for Securities of the same series and tenor in definitive registered form on such terms as are acceptable to the Company and such Depositary. Thereupon, the Company shall execute, and the Trustee shall authenticate and deliver, without service charge,

- (a) to the Person specified by such Depositary new certificated Securities of the same series and tenor, of any authorized denominations as requested by such Person, in an aggregate Principal amount equal to and in exchange for such Person's beneficial interest in the Registered Global Security; and
- (b) to such Depositary a new Registered Global Security in a denomination equal to the difference, if any, between the Principal amount of the surrendered Registered Global Security and the aggregate Principal amount of certificated Securities authenticated and delivered pursuant to clause (a) above.

Certificated Securities issued in exchange for a Registered Global Security pursuant to this Section 2.07 shall be registered in such names and in such authorized denominations as the Depositary for such Registered Global Security, pursuant to instructions from its direct or indirect participants or otherwise, shall instruct the Trustee or an agent of the Company or the Trustee. The Trustee or such agent shall deliver such Securities to or as directed by the Persons in whose names such Securities are so registered.

All Securities issued upon any transfer or exchange of Securities shall be valid obligations of the Company, evidencing the same debt, and entitled to the same benefits under this Indenture, as the Securities surrendered upon such transfer or exchange.

The Registrar shall not be required (i) to issue, authenticate, register the transfer of or exchange Securities of any series for a period of 15 days before a selection of such Securities to be redeemed or (ii) to register the transfer of or exchange any Security selected for redemption in whole or in part.

Section 2.08. *Replacement Securities*. If any mutilated Security is surrendered to the Trustee, the Company shall execute and the Trustee shall authenticate and deliver, in exchange for such mutilated Security, a new Security of the same series and of like tenor and Principal amount and bearing a number not contemporaneously outstanding.

If there shall be delivered to the Company and the Trustee (i) evidence to their satisfaction of the destruction, loss or theft of any Security and (ii) such security or indemnity as may be required by them to save each of them and any agent of any of them harmless, then, in the absence of notice to the Company or the Trustee that such Security has been acquired by a bona fide purchaser, the Company shall execute and the Trustee shall authenticate and deliver, in lieu of any such destroyed, lost or stolen Security, a new Security of the same series and of like tenor and Principal amount and bearing a number not contemporaneously outstanding.

In case any such mutilated, destroyed, lost or stolen Security has become or is about to become due and payable, the Company in its discretion may, instead of issuing a new Security, pay such Security (without surrender thereof except in the case of a mutilated Security) if the applicant for such payment shall furnish to the Company and the Trustee such security or indemnity as may be required by them to save each of them and any agent of any of them harmless, and in the case of destruction, loss or theft, evidence satisfactory to the Company and the Trustee and any agent of them of the destruction, loss or theft of such Security and the ownership thereof.

Upon the issuance of any new Security under this Section, the Company may require payment of a sum sufficient to cover any tax or other governmental charge that may be imposed in relation thereto and any other expenses (including the fees and expenses of the Trustee) connected therewith.

Every new Security of any series issued pursuant to this Section in lieu of any destroyed, lost or stolen Security or in exchange for any mutilated Security shall constitute an original additional contractual obligation of the Company, whether or not the mutilated, destroyed, lost or stolen Security shall be at any time enforceable by anyone, and any such new Security shall be entitled to all the benefits of this Indenture equally and proportionately with any and all other Securities of that series duly issued hereunder.

The provisions of this Section are exclusive and shall preclude (to the extent lawful) any other rights and remedies with respect to the replacement or payment of mutilated, destroyed, lost or stolen Securities.

Section 2.09. *Outstanding Securities*. Securities outstanding at any time are all Securities that have been authenticated by the Trustee except for those cancelled by it, those delivered to it for cancellation, those described in this Section as not outstanding and those that have been defeased pursuant to Section 8.05.

If a Security is replaced pursuant to Section 2.08, it ceases to be outstanding unless and until the Trustee and the Company receive proof satisfactory to them that the replaced Security is held by a holder in due course.

If the Paying Agent (other than the Company or an affiliate of the Company) holds on the maturity date or any redemption date or date for repurchase of the Securities money sufficient to pay Securities

payable or to be redeemed or repurchased on that date, then on and after that date such Securities cease to be outstanding and interest on them shall cease to accrue.

A Security does not cease to be outstanding because the Company or one of its affiliates holds such Security, *provided*, *however*, that, in determining whether the Holders of the requisite Principal amount of the outstanding Securities have given any request, demand, authorization, direction, notice, consent or waiver hereunder, Securities owned by the Company or any affiliate of the Company shall be disregarded and deemed not to be outstanding, except that, in determining whether the Trustee shall be protected in relying upon any such request, demand, authorization, direction, notice, consent or waiver, only Securities as to which a Responsible Officer of the Trustee has received written notice to be so owned shall be so disregarded. Any Securities so owned which are pledged by the Company, or by any affiliate of the Company, as security for loans or other obligations, otherwise than to another such affiliate of the Company, shall be deemed to be outstanding, if the pledgee is entitled pursuant to the terms of its pledge agreement and is free to exercise in its or his discretion the right to vote such securities, uncontrolled by the Company or by any such affiliate.

Section 2.10. *Temporary Securities*. Until definitive Securities of any series are ready for delivery, the Company may prepare and the Trustee shall authenticate temporary Securities of such series. Temporary Securities of any series shall be substantially in the form of definitive Securities of such series but may have insertions, substitutions, omissions and other variations determined to be appropriate by the Officers executing the temporary Securities, as evidenced by their execution of such temporary Securities. If temporary Securities of any series are issued, the Company will cause definitive Securities of such series to be prepared without unreasonable delay. After the preparation of definitive Securities of any series, the temporary Securities of such series shall be exchangeable for definitive Securities of such series and tenor upon surrender of such temporary Securities at the office or agency of the Company designated for such purpose pursuant to Section 4.02, without charge to the Holder. Upon surrender for cancellation of any one or more temporary Securities of any series the Company shall execute and the Trustee shall authenticate and deliver in exchange therefor a like Principal amount of definitive Securities of such series and tenor and authorized denominations. Until so exchanged, the temporary Securities of any series shall be entitled to the same benefits under this Indenture as definitive Securities of such series.

Section 2.11. *Cancellation*. The Company at any time may deliver to the Trustee for cancellation any Securities previously authenticated and delivered hereunder which the Company may have acquired in any manner whatsoever, and may deliver to the Trustee for cancellation any Securities previously authenticated hereunder which the Company has not issued and sold. The Registrar, any transfer agent and the Paying Agent shall forward to the Trustee any Securities surrendered to them for transfer, exchange or payment. The Trustee shall cancel and dispose of in accordance with its customary procedures all Securities surrendered for transfer, exchange, payment or cancellation and shall deliver a certificate of disposition to the Company. The Company may not issue new Securities to replace Securities it has paid in full or delivered to the Trustee for cancellation.

Section 2.12. *CUSIP Numbers*. The Company in issuing the Securities may use "CUSIP," "ISIN" and/or "CINS" numbers (if then generally in use), and the Trustee shall use CUSIP numbers, ISIN numbers or CINS numbers, as the case may be, in notices of redemption or exchange as a convenience to Holders and no representation shall be made as to the correctness of such numbers either as printed on the Securities or as contained in any notice of redemption or exchange.

Section 2.13. *Defaulted Interest*. If the Company defaults in a payment of interest on the Securities, it shall pay, or shall deposit with the Paying Agent money in immediately available funds sufficient to pay, the defaulted interest plus (to the extent lawful) any interest payable on the defaulted interest (as may be specified in the terms thereof, established pursuant to Section 2.03) to the Persons who are Holders on a subsequent special record date, which shall mean the 15th day next preceding the date fixed by the Company for the payment of defaulted interest, whether or not such day is a Business Day. At least 15 days before such special record date, the Company shall mail to each Holder of such Securities and to the Trustee a notice that states the special record date, the payment date and the amount of defaulted interest to be paid.

Section 2.14. *Series May Include Tranches*. A series of Securities may include one or more tranches (each a "**tranche**") of Securities, including Securities issued in a Periodic Offering. The Securities of different tranches may have one or more different terms, including authentication dates and public offering prices, but all the Securities within each such tranche shall have identical terms, including authentication date and public offering price. Notwithstanding any other provision of this Indenture, with respect to Sections 2.02 (other than the fourth, sixth and seventh paragraphs thereof) through 2.04, 2.07, 2.08, 2.10, 3.01 through 3.05, 4.02, 6.01 through 6.14, 8.01 through 8.07, 9.02 and 10.07, if any series of Securities includes more than one tranche, all provisions of such sections applicable to any series of Securities shall be deemed equally applicable to each tranche of any series of Securities in the same manner as though originally designated a series unless otherwise provided with respect to such series or tranche pursuant to Section 2.03. In particular, and without limiting the scope of the next preceding sentence, any of the provisions of such sections which provide for or permit action to be taken with respect to a series of Securities shall also be deemed to provide for and permit such action to be taken instead only with respect to Securities in the remaining tranches of that series.

ARTICLE 3 REDEMPTION

Section 3.01. *Applicability of Article*. The provisions of this Article shall be applicable to the Securities of any series that are redeemable before their maturity or to any sinking fund for the retirement of Securities of a series except as otherwise specified as contemplated by Section 2.03 for Securities of such series.

Section 3.02. *Notice of Redemption; Partial Redemptions*. Notice of redemption to the Holders of Securities of any series to be redeemed as a whole or in part at the option of the Company shall be given by mailing notice of such redemption by first class mail, postage prepaid, at least 30 days and not more than 60 days prior to the date fixed for redemption to such Holders of Securities of such series at their last addresses as they shall appear upon the Security Register. Any notice which is mailed in the manner herein provided shall be conclusively presumed to have been duly given, whether or not the Holder receives the notice. Failure to give notice by mail, or any defect in the notice to the Holder of any Security of a series designated for redemption as a whole or in part, shall not affect the validity of the proceedings for the redemption of any other Security of such series.

The notice of redemption to each such Holder shall specify the Principal amount of each Security of such series held by such Holder to be redeemed, the CUSIP numbers of the Securities to be redeemed, the date fixed for redemption, the redemption price, or if not then ascertainable, the manner of calculation thereof, the place or places of payment, that payment will be made upon presentation and surrender of such Securities, that such redemption is pursuant to the mandatory or optional sinking fund, or both, if such be the case, that interest accrued to the date fixed for redemption will be paid as specified in such notice and that on and after said date interest thereon or on the portions thereof to be redeemed will cease to accrue. In case any Security of a series is to be redeemed in part only, the notice of redemption shall state the portion of the Principal amount thereof to be redeemed and shall state that on and after the date fixed for redemption, upon surrender of such Security, a new Security or Securities of such series and tenor in Principal amount equal to the unredeemed portion thereof will be issued.

The notice of redemption of Securities of any series to be redeemed at the option of the Company shall be given by the Company or, at the Company's request, by the Trustee in the name and at the expense of the Company.

On or before 10:00 a.m. New York City time on the redemption date specified in the notice of redemption given as provided in this Section, the Company will deposit with the Trustee or with one or more Paying Agents (or, if the Company is acting as its own Paying Agent, set aside, segregate and hold in trust as provided in Section 2.06) an amount of money sufficient to redeem on the redemption date all the

Securities of such series so called for redemption at the appropriate redemption price, together with accrued interest to the date fixed for redemption. If all of the outstanding Securities of a series are to be redeemed, the Company will deliver to the Trustee at least 10 days prior to the last date on which notice of redemption may be given to Holders pursuant to the first paragraph of this Section 3.02 (or such shorter period as shall be acceptable to the Trustee) an Officers' Certificate stating that all such Securities are to be redeemed. If less than all the outstanding Securities of a series are to be redeemed, the Company will deliver to the Trustee at least 15 days prior to the last date on which notice of redemption may be given to Holders pursuant to the first paragraph of this Section 3.02 (or such shorter period as shall be acceptable to the Trustee) an Officers' Certificate stating the aggregate Principal amount of such Securities to be redeemed. In the case of any redemption of Securities (a) prior to the expiration of any restriction on such redemption provided in the terms of such Securities or elsewhere in this Indenture, or (b) pursuant to an election of the Company which is subject to a condition specified in the terms of such Securities or elsewhere in this Indenture, the Company shall deliver to the Trustee, prior to the giving of any notice of redemption to Holders pursuant to this Section, an Officers' Certificate evidencing compliance with such restriction or condition.

If less than all the Securities of a series are to be redeemed, the Trustee shall select, pro rata, by lot or in such manner as it shall deem appropriate and fair, Securities of such series to be redeemed in whole or in part. Securities may be redeemed in part in Principal amounts equal to authorized denominations for Securities of such series. The Trustee shall promptly notify the Company in writing of the Securities of such series selected for redemption and, in the case of any Securities of such series selected for partial redemption, the Principal amount thereof to be redeemed. For all purposes of this Indenture, unless the context otherwise requires, all provisions relating to the redemption of Securities shall relate, in the case of any Security redeemed or to be redeemed only in part, to the portion of the Principal amount of such Security which has been or is to be redeemed.

Section 3.03. Payment of Securities Called for Redemption. If notice of redemption has been given as above provided, the Securities or portions of Securities specified in such notice shall become due and payable on the date and at the place stated in such notice at the applicable redemption price, together with interest accrued to the date fixed for redemption, and on and after such date (unless the Company shall default in the payment of such Securities at the redemption price, together with interest accrued to such date) interest on the Securities or portions of Securities so called for redemption shall cease to accrue, and, except as provided in Sections 7.12 and 8.02, such Securities shall cease from and after the date fixed for redemption to be entitled to any benefit under this Indenture, and the Holders thereof shall have no right in respect of such Securities except the right to receive the redemption price thereof and unpaid interest to the date fixed for redemption. On presentation and surrender of such Securities at a place of payment specified in said notice, said Securities or the specified portions thereof shall be paid and redeemed by the Company at the applicable redemption price, together with interest accrued thereon to the date fixed for redemption; provided that payment of interest becoming due on or prior to the date fixed for redemption shall be payable to the Holders registered as such on the relevant record date subject to the terms and provisions of Sections 2.04 and 2.13 hereof.

If any Security called for redemption shall not be so paid upon surrender thereof for redemption, the principal shall, until paid or duly provided for, bear interest from the date fixed for redemption at the rate of interest or Yield to Maturity (in the case of an Original Issue Discount Security) borne by such Security.

Upon presentation of any Security of any series redeemed in part only, the Company shall execute and the Trustee shall authenticate and deliver to or on the order of the Holder thereof, at the expense of the Company, a new Security or Securities of such series and tenor, of authorized denominations, in Principal amount equal to the unredeemed portion of the Security so presented.

Section 3.04. *Exclusion of Certain Securities from Eligibility for Selection for Redemption*. Unless otherwise provided with respect to any series of Securities, Securities shall be excluded from eligibility for selection for redemption if they are identified by registration and certificate number in a written statement signed by an authorized Officer of the Company and delivered to the Trustee at least 40

days prior to the last date on which notice of redemption may be given as being owned of record and beneficially by, and not pledged or hypothecated by, either (a) the Company or (b) an entity specifically identified in such written statement as directly or indirectly controlling or controlled by or under direct or indirect common control with the Company.

Section 3.05. *Mandatory and Optional Sinking Funds*. The minimum amount of any sinking fund payment provided for by the terms of Securities of any series is herein referred to as a "mandatory sinking fund payment", and any payment in excess of such minimum amount provided for by the terms of the Securities of any series is herein referred to as an "optional sinking fund payment." The date on which a sinking fund payment is to be made is herein referred to as the "sinking fund payment date."

In lieu of making all or any part of any mandatory sinking fund payment with respect to any series of Securities in cash, the Company may at its option (a) deliver to the Trustee Securities of such series theretofore purchased or otherwise acquired (except through a mandatory sinking fund payment) by the Company or receive credit for Securities of such series (not previously so credited) theretofore purchased or otherwise acquired (except as aforesaid) by the Company and delivered to the Trustee for cancellation pursuant to Section 2.11, (b) receive credit for optional sinking fund payments (not previously so credited) made pursuant to this Section, or (c) receive credit for Securities of such series (not previously so credited) redeemed by the Company at the option of the Company pursuant to the terms of such Securities or through any optional sinking fund payment. Securities so delivered or credited shall be received or credited by the Trustee at the sinking fund redemption price specified in such Securities.

On or before the sixtieth day next preceding each sinking fund payment date for any series, or such shorter period as shall be acceptable to the Trustee, the Company will deliver to the Trustee an Officers' Certificate (a) specifying the portion of the mandatory sinking fund payment to be satisfied by payment of cash and the portion to be satisfied by credit of specified Securities of such series and the basis for such credit, (b) stating that none of the specified Securities of such series has theretofore been so credited, (c) stating that no defaults in the payment of interest or Events of Default with respect to such series have occurred (which have not been waived or cured) and are continuing and (d) stating whether or not the Company intends to exercise its right to make an optional sinking fund payment with respect to such series and, if so, specifying the amount of such optional sinking fund payment which the Company intends to pay on or before the next succeeding sinking fund payment date. Any Securities of such series to be credited and required to be delivered to the Trustee in order for the Company to be entitled to credit therefor as aforesaid which have not theretofore been delivered to the Trustee shall be delivered for cancellation pursuant to Section 2.11 to the Trustee with such Officers' Certificate (or reasonably promptly thereafter if acceptable to the Trustee). Such Officers' Certificate shall be irrevocable and upon its receipt by the Trustee the Company shall become unconditionally obligated to make all the cash payments or delivery of Securities therein referred to, if any, on or before the next succeeding sinking fund payment date. Failure of the Company, on or before any such sixtieth day, to deliver such Officer's Certificate and Securities specified in this paragraph, if any, shall not constitute a default but shall constitute, on and as of such date, the irrevocable election of the Company (i) that the mandatory sinking fund payment for such series due on the next succeeding sinking

If the sinking fund payment or payments (mandatory or optional or both) to be made in cash on the next succeeding sinking fund payment date plus any unused balance of any preceding sinking fund payments made in cash shall exceed \$50,000 (or a lesser sum if the Company shall so request with respect to the Securities of any series), such cash shall be applied on the next succeeding sinking fund payment date to the redemption of Securities of such series at the sinking fund redemption price thereof together with accrued interest thereon to the date fixed for redemption. If such amount shall be \$50,000 (or such lesser sum) or less and the Company makes no such request then it shall be carried over until a sum in excess of \$50,000 (or such lesser sum) is available. The Trustee shall select, in the manner provided in Section 3.02, for redemption on such sinking fund payment date a sufficient Principal amount of Securities of such series to absorb said cash, as nearly as may be, and shall (if requested in writing by the Company) inform the Company of the serial numbers of the Securities of such series (or portions thereof)

so selected. Securities shall be excluded from eligibility for redemption under this Section if they are identified by registration and certificate number in an Officers' Certificate delivered to the Trustee at least 60 days prior to the sinking fund payment date as being owned of record and beneficially by, and not pledged or hypothecated by either (a) the Company or (b) an entity specifically identified in such Officers' Certificate as directly or indirectly controlling or controlled by or under direct or indirect common control with the Company. The Trustee, in the name and at the expense of the Company (or the Company, if it shall so request the Trustee in writing) shall cause notice of redemption of the Securities of such series to be given in substantially the manner provided in Section 3.02 (and with the effect provided in Section 3.03) for the redemption of Securities of such series in part at the option of the Company. The amount of any sinking fund payments not so applied or allocated to the redemption of Securities of such series shall be added to the next cash sinking fund payment for such series and, together with such payment, shall be applied in accordance with the provisions of this Section. Any and all sinking fund moneys held on the stated maturity date of the Securities of any particular series (or earlier, if such maturity is accelerated), which are not held for the payment or redemption of particular Securities of such series shall be applied, together with other moneys, if necessary, sufficient for the purpose, to the payment of the Principal of, and interest on, the Securities of such series at maturity.

On or before 10:00 a.m. New York City time on each sinking fund payment date, the Company shall pay to the Trustee in cash or shall otherwise provide for the payment of all interest accrued to the date fixed for redemption on Securities to be redeemed on the next following sinking fund payment date.

The Trustee shall not redeem or cause to be redeemed any Securities of a series with sinking fund moneys or mail any notice of redemption of Securities of such series by operation of the sinking fund during the continuance of a Default in payment of interest on such Securities or of any Event of Default except that, where the mailing of notice of redemption of any Securities shall theretofore have been made, the Trustee shall redeem or cause to be redeemed such Securities, provided that it shall have received from the Company a sum sufficient for such redemption. Except as aforesaid, any moneys in the sinking fund for such series at the time when any such Default or Event of Default shall occur, and any moneys thereafter paid into the sinking fund, shall, during the continuance of such Default or Event of Default, be deemed to have been collected under Article 6 and held for the payment of all such Securities. In case such Event of Default shall have been waived as provided in Section 6.04 or the Default cured on or before the sixtieth day preceding the sinking fund payment date in any year, such moneys shall thereafter be applied on the next succeeding sinking fund payment date in accordance with this Section to the redemption of such Securities.

ARTICLE 4 COVENANTS

Section 4.01. *Payment of Securities*. The Company shall pay the Principal of and interest on the Securities on the dates and in the manner provided in the Securities and this Indenture. The interest on Securities (together with any additional amounts payable pursuant to the terms of such Securities) shall be payable only to the Holders thereof (subject to Section 2.04) and at the option of the Company may be paid by mailing checks for such interest payable to or upon the written order of such Holders at their last addresses as they appear on the Security Register of the Company.

Notwithstanding any provisions of this Indenture and the Securities of any series to the contrary, if the Company and a Holder of any Security so agree, payments of interest on, and any portion of the Principal of, such Holder's Security (other than interest payable at maturity or on any redemption or repayment date or the final payment of Principal on such Security) shall be made by the Paying Agent, upon receipt from the Company of immediately available funds by 11:00 A.M., New York City time (or such other time as may be agreed to between the Company and the Paying Agent), directly to the Holder of such Security (by Federal funds wire transfer or otherwise) if the Holder has delivered written instructions to the Trustee 15 days prior to such payment date requesting that such payment will be so made and designating the bank account to which such payments shall be so made and in the case of payments of Principal, surrenders the same to the Trustee in exchange for a Security or Securities aggregating the same

Principal amount as the unredeemed Principal amount of the Securities surrendered. The Trustee shall be entitled to rely on the last instruction delivered by the Holder pursuant to this Section 4.01 unless a new instruction is delivered 15 days prior to a payment date. The Company will indemnify and hold each of the Trustee and any Paying Agent harmless against any loss, liability or expense (including attorneys' fees) resulting from any act or omission to act on the part of the Company or any such Holder in connection with any such agreement or from making any payment in accordance with any such agreement.

The Company shall pay interest on overdue Principal, and interest on overdue installments of interest, to the extent lawful, at the rate per annum specified in the Securities.

Section 4.02. *Maintenance of Office or Agency*. The Company will maintain in the United States of America, an office or agency where Securities may be surrendered for registration of transfer or exchange or for presentation for payment and where notices and demands to or upon the Company in respect of the Securities and this Indenture may be served. The Company hereby initially designates [], as such office or agency of the Company. The Company will give prompt written notice to the Trustee of the location, and any change in the location, of such office or agency. If at any time the Company shall fail to maintain any such required office or agency or shall fail to furnish the Trustee with the address thereof, such presentations, surrenders, notices and demands may be made or served at the address of the Trustee set forth in Section 10.02.

The Company may also from time to time designate one or more other offices or agencies where the Securities of any series may be presented or surrendered for any or all such purposes and may from time to time rescind such designations; provided that no such designation or rescission shall in any manner relieve the Company of its obligation to maintain an office or agency in the United States of America for such purposes. The Company will give prompt written notice to the Trustee of any such designation or rescission and of any change in the location of any such other office or agency.

Section 4.03. Securityholders' Lists. The Company will furnish or cause to be furnished to the Trustee a list in such form as the Trustee may reasonably require of the names and addresses of the holders of the Securities pursuant to Section 312 of the Trust Indenture Act (a) semi-annually not more than 15 days after each record date for the payment of semi-annual interest on the Securities, as hereinabove specified, as of such record date, and (b) at such other times as the Trustee may request in writing, within thirty days after receipt by the Company of any such request as of a date not more than 15 days prior to the time such information is furnished.

Section 4.04. *Certificate to Trustee*. The Company will furnish to the Trustee annually, on or before a date not more than four months after the end of its fiscal year (which, on the date hereof, is a calendar year), a brief certificate (which need not contain the statements required by Section 10.04) from its principal executive, financial or accounting officer as to his or her knowledge of the compliance of the Company with all conditions and covenants under this Indenture (such compliance to be determined without regard to any period of grace or requirement of notice provided under this Indenture) which certificate shall comply with the requirements of the Trust Indenture Act.

Section 4.05. *Reports by the Company*. The Company covenants to file with the Trustee, within 15 days after the Company files the same with the Commission, copies of the annual reports and of the information, documents, and other reports which the Company may be required to file with the Commission pursuant to Section 13 or Section 15(d) of the Exchange Act.

Section 4.06. Additional Amounts. If the Securities of a series provide for the payment of additional amounts, at least 10 days prior to the first interest payment date with respect to that series of Securities and at least 10 days prior to each date of payment of Principal of or interest on the Securities of that series if there has been a change with respect to the matters set forth in the below-mentioned Officers' Certificate, the Company shall furnish to the Trustee and the principal paying agent, if other than the Trustee, an Officers' Certificate instructing the Trustee and such paying agent whether such payment of Principal of or interest on the Securities of that series shall be made to Holders of the Securities of that series without withholding or deduction for or on account of any tax, assessment or other governmental

charge described in the Securities of that series. If any such withholding or deduction shall be required, then such Officers' Certificate shall specify by country the amount, if any, required to be withheld or deducted on such payments to such Holders and shall certify the fact that additional amounts will be payable and the amounts so payable to each Holder, and the Company shall pay to the Trustee or such paying agent the additional amounts required to be paid by this Section. The Company covenants to indemnify the Trustee and any paying agent for, and to hold them harmless against, any loss, liability or expense reasonably incurred without negligence or bad faith on their part arising out of or in connection with actions taken or omitted by any of them in reliance on any Officers' Certificate furnished pursuant to this Section.

Whenever in this Indenture there is mentioned, in any context, the payment of the Principal of or interest or any other amounts on, or in respect of, any Security of any series, such mention shall be deemed to include mention of the payment of additional amounts provided by the terms of such series established hereby or pursuant hereto to the extent that, in such context, additional amounts are, were or would be payable in respect thereof pursuant to such terms, and express mention of the payment of additional amounts (if applicable) in any provision hereof shall not be construed as excluding the payment of additional amounts in those provisions hereof where such express mention is not made.

ARTICLE 5 SUCCESSOR CORPORATION

Section 5.01. When Company May Merge, Etc. Unless otherwise provided pursuant to Section 2.03 in connection with the establishment of a series, the Company shall not consolidate or combine with, merge with or into, directly or indirectly, or sell, assign, convey, transfer, lease or otherwise dispose of all or substantially all of its property and assets to any Person or Persons in a single transaction or through a series of transactions unless:

- (a) the Company shall be the continuing Person or, if the Company is not the continuing Person, the resulting, surviving or transferee Person (the "Surviving Entity") is a company organized and existing under the laws of any member state of the European Union or the United States of America or any State or territory thereof;
- (b) the Surviving Entity shall expressly assume all of the Company's obligations under the Securities and this Indenture, and shall, if required by law to effectuate the assumption, execute supplemental indentures which shall be delivered to the Trustee and shall be in form and substance reasonably satisfactory to the Trustee;
 - (c) immediately after giving effect to such transaction or series of transactions on a pro forma basis, no Default has occurred and is continuing; and
- (d) the Company or the Surviving Entity shall have delivered to the Trustee an Officers' Certificate and Opinion of Counsel stating that (x) the transaction or series of transactions and such supplemental indenture, if any, complies with this Section 5.01, (y) such supplemental indenture (if any) constitutes the legal, valid and binding obligation of the Company and such Surviving Entity enforceable against such Surviving Entity in accordance with its terms, subject to customary exceptions and (z) all conditions precedent in this Indenture relating to the transaction or series of transactions have been satisfied.

Section 5.02. *Successor Substituted*. Upon any consolidation, combination or merger, or any sale, assignment, conveyance, transfer, lease or other disposition of all or substantially all of the property and assets of the Company in accordance with Section 5.01 of this Indenture, the Surviving Entity shall succeed to, and be substituted for, and may exercise every right and power of, the Company under this Indenture with the same effect as if such Surviving Entity had been named as the Company herein and thereafter the predecessor Person, except in the case of (x) a lease or (y) any sale, assignment, conveyance, transfer, lease or other disposition to one or more Subsidiaries of the Company, shall be discharged from all obligations and covenants under this Indenture and the Securities.

ARTICLE 6 DEFAULT AND REMEDIES

Section 6.01. Events of Default. An "Event of Default" shall occur with respect to the Securities of any series if:

- (a) the Company defaults in the payment of the Principal of any Security of such series when the same becomes due and payable at maturity, upon acceleration, redemption or mandatory repurchase, including as a sinking fund installment, or otherwise;
- (b) the Company defaults in the payment of interest on any Security of such series when the same becomes due and payable, and such default continues for a period of 30 days;
- (c) the Company defaults in the performance of or breaches any other covenant or agreement of the Company in this Indenture with respect to any Security of such series or in the Securities of such series (other than a covenant or agreement in respect of which noncompliance by the Company would otherwise be an Event of Default) and such default or breach continues for a period of 90 consecutive days or more after written notice to the Company by the Trustee or to the Company and the Trustee by the Holders of 25% or more in aggregate Principal amount of the Securities of all series affected thereby specifying such default or breach and requiring it to be remedied and stating that such notice is a "Notice of Default" hereunder;
- (d) a court having jurisdiction in the premises shall enter a decree or order for relief in respect of the Company in an involuntary case under any applicable bankruptcy, insolvency or other similar law now or hereafter in effect, or appointing a receiver, liquidator, assignee, custodian, trustee, sequestrator (or similar official) of the Company or for any substantial part of its property or ordering the winding up or liquidation of its affairs, and such decree or order shall remain unstayed and in effect for a period of 60 consecutive days;
- (e) the Company (i) commences a voluntary case under any applicable bankruptcy, insolvency or other similar law now or hereafter in effect, or consents to the entry of an order for relief in an involuntary case under any such law, (ii) consents to the appointment of or taking possession by a receiver, liquidator, assignee, custodian, trustee, sequestrator or similar official of the Company or for all or substantially all of the property and assets of the Company or (iii) effects any general assignment for the benefit of creditors; or
 - (f) any other Event of Default established pursuant to Section 2.03 with respect to the Securities of such series occurs.

Section 6.02. Acceleration. (a) If an Event of Default other than as described in clauses (d) or (e) of Section 6.01 with respect to the Securities of any series then outstanding occurs and is continuing, then, and in each and every such case, except for any series of Securities the Principal of which shall have already become due and payable, either the Trustee or the Holders of not less than 25% in aggregate Principal amount of the Securities of all such series then outstanding hereunder in respect of which an Event of Default has occurred (all such series voting together as a single class) by notice in writing to the Company (and to the Trustee if given by Securityholders), may declare the entire Principal (or, if the Securities of any such series are Original Issue Discount Securities, such portion of the Principal amount as may be specified in the terms of such series established pursuant to Section 2.03) of all Securities of the affected series, and the interest accrued thereon, if any, to be due and payable immediately, and upon any such declaration the same shall become immediately due and payable.

(a) If an Event of Default described in clause (d) or (e) of Section 6.01 occurs and is continuing, then the Principal amount (or, if any Securities are Original Issue Discount Securities, such portion of the Principal as may be specified in the terms thereof established pursuant to Section 2.03) of all the Securities then outstanding and interest accrued thereon, if any, shall be and become immediately due

and payable, without any declaration, notice or other action by any Holder or the Trustee, to the full extent permitted by applicable law.

The foregoing provisions, however, are subject to the condition that if, at any time after the Principal (or, if the Securities are Original Issue Discount Securities, such portion of the Principal as may be specified in the terms thereof established pursuant to Section 2.03) of the Securities of any series (or of all the Securities, as the case may be) shall have been so declared or become due and payable, and before any judgment or decree for the payment of the moneys due shall have been obtained or entered as hereinafter provided, the Company shall pay or shall deposit with the Trustee a sum sufficient to pay all matured installments of interest upon all the Securities of each such series (or of all the Securities, as the case may be) which shall have become due otherwise than by acceleration (with interest upon such Principal and, to the extent that payment of such interest is enforceable under applicable law, on overdue installments of interest, at the same rate as the rate of interest or Yield to Maturity (in the case of Original Issue Discount Securities) specified in the Securities of each such series to the date of such payment or deposit) and such amount as shall be sufficient to cover all amounts owing the Trustee under Section 7.07, and if any and all Events of Default under the Indenture, other than the non-payment of the Principal of and interest on Securities which shall have become due by acceleration, shall have been cured, waived or otherwise remedied as provided herein, then and in every such case the Holders of a majority in aggregate Principal amount of all the then outstanding Securities of all such series (or with respect to all the Securities, as the case may be) and rescind and annul such declaration and its consequences, but no such waiver or rescission and annulment shall extend to or shall affect any subsequent default or shall impair any right consequent thereon.

For all purposes under this Indenture, if a portion of the Principal of any Original Issue Discount Securities shall have been accelerated and declared or become due and payable pursuant to the provisions hereof, then, from and after such declaration, unless such declaration has been rescinded and annulled, the Principal amount of such Original Issue Discount Securities shall be deemed, for all purposes hereunder, to be such portion of the Principal thereof as shall be due and payable as a result of such acceleration, and payment of such portion of the Principal thereof as shall be due and payable as a result of such acceleration, together with interest, if any, thereon and all other amounts owing thereunder, shall constitute payment in full of such Original Issue Discount Securities.

Section 6.03. *Other Remedies*. If a payment default or an Event of Default with respect to the Securities of any series occurs and is continuing, the Trustee may pursue, in its own name or as trustee of an express trust, any available remedy by proceeding at law or in equity to collect the payment of Principal of and interest on the Securities of such series or to enforce the performance of any provision of the Securities of such series or this Indenture.

The Trustee may maintain a proceeding even if it does not possess any of the Securities or does not produce any of them in the proceeding.

Section 6.04. Waiver of Past Defaults. Subject to Sections 6.02, 6.07 and 9.02, the Holders of at least a majority in Principal amount (or, if the Securities are Original Issue Discount Securities, such portion of the Principal as is then accelerable under Section 6.02) of the outstanding Securities of all series affected (voting as a single class), by notice to the Trustee, may waive an existing Default or Event of Default with respect to the Securities of such series and its consequences, except a Default in the payment of Principal of or interest on any Security as specified in clauses (a) or (b) of Section 6.01 or in respect of a covenant or provision of this Indenture which cannot be modified or amended without the consent of the Holder of each outstanding Security affected. Upon any such waiver, such Default shall cease to exist, and any Event of Default with respect to the Securities of such series arising therefrom shall be deemed to have been cured, for every purpose of this Indenture; but no such waiver shall extend to any subsequent or other Default or Event of Default or impair any right consequent thereto.

Section 6.05. *Control by Majority*. Subject to Sections 7.01 and 7.02(e), the Holders of at least a majority in aggregate Principal amount (or, if any Securities are Original Issue Discount Securities, such portion of the Principal as is then accelerable under Section 6.02) of the outstanding Securities of all series affected (voting as a single class) may direct the time, method and place of conducting any proceeding for any remedy available to the Trustee or exercising any trust or power conferred on the Trustee with respect to the Securities of such series by this Indenture; *provided*, that the Trustee may refuse to follow any direction that conflicts with law or this Indenture, that may involve the Trustee in personal liability or that the Trustee determines in good faith may be unduly prejudicial to the rights of Holders not joining in the giving of such direction; and provided further, that the Trustee may take any other action it deems proper that is not inconsistent with any directions received from Holders of Securities pursuant to this Section 6.05.

Section 6.06. *Limitation on Suits*. No Holder of any Security of any series may institute any proceeding, judicial or otherwise, with respect to this Indenture or the Securities of such series, or for the appointment of a receiver or trustee, or for any other remedy hereunder, unless:

- (a) such Holder has previously given to the Trustee written notice of a continuing Event of Default with respect to the Securities of such series;
- (b) the Holders of at least 25% in aggregate Principal amount of outstanding Securities of all such series affected shall have made written request to the Trustee to institute proceedings in respect of such Event of Default in its own name as Trustee hereunder;
- (c) such Holder or Holders have offered to the Trustee indemnity or security reasonably satisfactory to it against any costs, liabilities or expenses to be incurred in compliance with such request;
 - (d) the Trustee for 60 days after its receipt of such notice, request and offer of indemnity has failed to institute any such proceeding; and
- (e) during such 60-day period, the Holders of a majority in aggregate Principal amount of the outstanding Securities of all such affected series have not given the Trustee a direction that is inconsistent with such written request.

A Holder may not use this Indenture to prejudice the rights of another Holder or to obtain a preference or priority over such other Holder.

Section 6.07. *Rights of Holders to Receive Payment*. Notwithstanding any other provision of this Indenture, the right of any Holder of a Security to receive payment of Principal of or interest, if any, on such Holder's Security on or after the respective due dates expressed on such Security, or to bring suit for the enforcement of any such payment on or after such respective dates, shall not be impaired or affected without the consent of such Holder.

Section 6.08. *Collection Suit by Trustee*. If an Event of Default with respect to the Securities of any series in payment of Principal or interest specified in clause (a) or (b) of Section 6.01 occurs and is continuing, the Trustee may recover judgment in its own name and as trustee of an express trust against the Company for the whole amount (or such portion thereof as specified in the terms established pursuant to Section 2.03 of Original Issue Discount Securities) of Principal of, and accrued interest remaining unpaid on, together with interest on overdue Principal of, and, to the extent that payment of such interest is lawful, interest on overdue installments of interest on, the Securities of such series, in each case at the rate or Yield to Maturity (in the case of Original Issue Discount Securities) specified in such Securities, and such further amount as shall be sufficient to cover all amounts owing the Trustee under Section 7.07.

Section 6.09. *Trustee May File Proofs of Claim*. The Trustee may file such proofs of claim and other papers or documents as may be necessary or advisable in order to have the claims of the Trustee (including any claim for amounts due the Trustee under Section 7.07) and the Holders allowed in any

judicial proceedings relative to the Company (or any other obligor on the Securities), its creditors or its property and shall be entitled and empowered to collect and receive any moneys, securities or other property payable or deliverable upon conversion or exchange of the Securities or upon any such claims and to distribute the same, and any custodian, receiver, assignee, trustee, liquidator, sequestrator or other similar official in any such judicial proceeding is hereby authorized by each Holder to make such payments to the Trustee and, in the event that the Trustee shall consent to the making of such payments directly to the Holders, to pay to the Trustee any amount due to it under Section 7.07. Nothing herein contained shall be deemed to empower the Trustee to authorize or consent to, or accept or adopt on behalf of any Holder, any plan of reorganization, arrangement, adjustment or composition affecting the Securities or the rights of any Holder thereof, or to authorize the Trustee to vote in respect of the claim of any Holder in any such proceeding.

Section 6.10. *Application of Proceeds*. Any moneys collected by the Trustee pursuant to this Article in respect of the Securities of any series shall be applied in the following order at the date or dates fixed by the Trustee and, in case of the distribution of such moneys on account of Principal or interest, upon presentation of the several Securities in respect of which moneys have been collected and noting thereon the payment, or issuing Securities of such series and tenor in reduced Principal amounts in exchange for the presented Securities of such series and tenor if only partially paid, or upon surrender thereof if fully paid:

FIRST: To the payment of all amounts due the Trustee under Section 7.07 applicable to the Securities of such series in respect of which moneys have been collected;

SECOND: In case the Principal of the Securities of such series in respect of which moneys have been collected shall not have become and be then due and payable, to the payment of interest on the Securities of such series in default in the order of the maturity of the installments of such interest, with interest (to the extent that such interest has been collected by the Trustee) upon the overdue installments of interest at the same rate as the rate of interest or Yield to Maturity (in the case of Original Issue Discount Securities) specified in such Securities, such payments to be made ratably to the persons entitled thereto, without discrimination or preference;

THIRD: In case the Principal of the Securities of such series in respect of which moneys have been collected shall have become and shall be then due and payable, to the payment of the whole amount then owing and unpaid upon all the Securities of such series for Principal and interest, with interest upon the overdue Principal, and (to the extent that such interest has been collected by the Trustee) upon overdue installments of interest at the same rate as the rate of interest or Yield to Maturity (in the case of Original Issue Discount Securities) specified in the Securities of such series; and in case such moneys shall be insufficient to pay in full the whole amount so due and unpaid upon the Securities of such series, then to the payment of such Principal and interest or Yield to Maturity, without preference or priority of Principal over interest or Yield to Maturity, or of interest or Yield to Maturity over Principal, or of any installment of interest over any other installment of interest, or of any Security of such series over any other Security of such series, ratably to the aggregate of such Principal and accrued and unpaid interest or Yield to Maturity; and

FOURTH: To the payment of the remainder, if any, to the Company or any other person lawfully entitled thereto.

Section 6.11. *Restoration of Rights and Remedies*. If the Trustee or any Holder has instituted any proceeding to enforce any right or remedy under this Indenture and such proceeding has been discontinued or abandoned for any reason, or has been determined adversely to the Trustee or to such Holder, then, and in every such case, subject to any determination in such proceeding, the Company, the Trustee and the Holders shall be restored to their former positions hereunder and thereafter all rights and remedies of the Company, Trustee and the Holders shall continue as though no such proceeding had been instituted.

Section 6.12. *Undertaking for Costs*. In any suit for the enforcement of any right or remedy under this Indenture or in any suit against the Trustee for any action taken or omitted by it as Trustee, in either case in respect to the Securities of any series, a court may require any party litigant in such suit (other than the Trustee) to file an undertaking to pay the costs of the suit, and the court may assess reasonable costs, including reasonable attorneys' fees, against any party litigant (other than the Trustee) in the suit having due regard to the merits and good faith of the claims or defenses made by the party litigant. This Section 6.12 does not apply to a suit by a Holder pursuant to Section 6.07, a suit instituted by the Trustee or a suit by Holders of more than 10% in Principal amount of the outstanding Securities of such series.

Section 6.13. *Rights and Remedies Cumulative*. Except as otherwise provided with respect to the replacement or payment of mutilated, destroyed, lost or wrongfully taken Securities in Section 2.08, no right or remedy herein conferred upon or reserved to the Trustee or to the Holders is intended to be exclusive of any other right or remedy, and every right and remedy shall, to the extent permitted by law, be cumulative and in addition to every other right and remedy given hereunder or now or hereafter existing at law or in equity or otherwise. The assertion or employment of any right or remedy hereunder, or otherwise, shall not prevent the concurrent assertion or employment of any other appropriate right or remedy.

Section 6.14. *Delay or Omission not Waiver*. No delay or omission of the Trustee or of any Holder to exercise any right or remedy accruing upon any Event of Default shall impair any such right or remedy or constitute a waiver of any such Event of Default or an acquiescence therein. Every right and remedy given by this Article 6 or by law to the Trustee or to the Holders may be exercised from time to time, and as often as may be deemed expedient, by the Trustee or by the Holders, as the case may be.

ARTICLE 7 TRUSTEE

Section 7.01. *General*. The duties and responsibilities of the Trustee shall be as provided by the Trust Indenture Act and as set forth herein. Notwithstanding the foregoing, no provision of this Indenture shall require the Trustee to expend or risk its own funds or otherwise incur any financial liability in the performance of any of its duties hereunder, or in the exercise of any of its rights or powers, unless it receives indemnity satisfactory to it against any loss, liability or expense. Whether or not therein expressly so provided, every provision of this Indenture relating to the conduct or affecting the liability of or affording protection to the Trustee shall be subject to the provisions of this Article 7.

Section 7.02. Certain Rights of Trustee. Subject to Trust Indenture Act Sections 315(a) through (d):

- (a) the Trustee may rely and shall be protected in acting or refraining from acting upon any resolution, certificate, Officers' Certificate, Opinion of Counsel (or both), statement, instrument, opinion, report, notice, request, direction, consent, order, bond, debenture, note, other evidence of indebtedness or other paper or document believed by it to be genuine and to have been signed or presented by the proper person or persons. The Trustee need not investigate any fact or matter stated in the document, but the Trustee, in its discretion, may make such further inquiry or investigation into such facts or matters as it may see fit;
- (b) before the Trustee acts or refrains from acting, it may require an Officers' Certificate and/or an Opinion of Counsel, which shall conform to Section 10.04 and shall cover such other matters as the Trustee may reasonably request. The Trustee shall not be liable for any action it takes or omits to take in good faith in reliance on such certificate or opinion. Subject to Sections 7.01 and 7.02, whenever in the administration of the trusts of this Indenture the Trustee shall deem it necessary or desirable that a matter be proved or established prior to taking or suffering or omitting any action hereunder, such matter (unless other evidence in respect thereof be herein specifically prescribed) may, in the absence of negligence or bad faith on the part of the Trustee, be deemed to be conclusively proved and established by an Officers' Certificate delivered to the Trustee, and such certificate, in the absence of negligence or bad faith on the

part of the Trustee, shall be full warrant to the Trustee for any action taken, suffered or omitted by it under the provisions of this Indenture upon the faith thereof:

- (c) the Trustee may act through its attorneys and agents not regularly in its employ and shall not be responsible for the misconduct or negligence of any agent or attorney appointed with due care;
- (d) any request, direction, order or demand of the Company mentioned herein shall be sufficiently evidenced by an Officers' Certificate (unless other evidence in respect thereof be herein specifically prescribed); and any Board Resolution may be evidenced to the Trustee by a copy thereof certified by the Secretary or an Assistant Secretary of the Company;
- (e) the Trustee shall be under no obligation to exercise any of the rights or powers vested in it by this Indenture at the request, order or direction of any of the Holders, unless such Holders shall have offered to the Trustee security or indemnity reasonably satisfactory to it against any costs, expenses or liabilities that might be incurred by it in compliance with such request or direction;
- (f) the Trustee shall not be liable for any action it takes or omits to take in good faith that it believes to be authorized or within its rights or powers or for any action it takes or omits to take in accordance with the direction of the Holders in accordance with Section 6.05 relating to the time, method and place of conducting any proceeding for any remedy available to the Trustee, or exercising any trust or power conferred upon the Trustee, under this Indenture;
- (g) the Trustee may consult with counsel and the written advice of such counsel or any Opinion of Counsel shall be full and complete authorization and protection in respect of any action taken, suffered or omitted by it hereunder in good faith and in reliance thereon; and
- (h) prior to the occurrence of an Event of Default hereunder and after the curing or waiving of all Events of Default, the Trustee shall not be bound to make any investigation into the facts or matters stated in any resolution, certificate, Officers' Certificate, Opinion of Counsel, Board Resolution, statement, instrument, opinion, report, notice, request, consent, order, approval, appraisal, bond, debenture, note, coupon, security, or other paper or document unless requested in writing so to do by the Holders of not less than a majority in aggregate Principal amount of the Securities of all series affected then outstanding; provided that, if the payment within a reasonable time to the Trustee of the costs, expenses or liabilities likely to be incurred by it in the making of such investigation is, in the opinion of the Trustee, not reasonably assured to the Trustee by the security afforded to it by the terms of this Indenture, the Trustee may require reasonable indemnity against such expenses or liabilities as a condition to proceeding.

Section 7.03. *Individual Rights of Trustee*. The Trustee, in its individual or any other capacity, may become the owner or pledgee of Securities and may otherwise deal with the Company or its Affiliates with the same rights it would have if it were not the Trustee. Any Agent may do the same with like rights. However, the Trustee is subject to Trust Indenture Act Sections 310(b) and 311. For purposes of Trust Indenture Act Section 311(b)(4) and (6), the following terms shall mean:

- (a) "cash transaction" means any transaction in which full payment for goods or securities sold is made within seven days after delivery of the goods or securities in currency or in checks or other orders drawn upon banks or bankers and payable upon demand; and
- (b) "self-liquidating paper" means any draft, bill of exchange, acceptance or obligation which is made, drawn, negotiated or incurred by the Company for the purpose of financing the purchase, processing, manufacturing, shipment, storage or sale of goods, wares or merchandise and which is secured by documents evidencing title to, possession of, or a lien upon, the goods, wares or merchandise or the receivables or proceeds arising from the sale of the goods, wares or merchandise previously constituting the security, provided the security is received by the Trustee simultaneously with the creation of the creditor relationship with the Company arising from the making, drawing, negotiating or incurring of the draft, bill of exchange, acceptance or obligation.

Section 7.04. *Trustee's Disclaimer*. The recitals contained herein and in the Securities (except the Trustee's certificate of authentication) shall be taken as statements of the Company and not of the Trustee and the Trustee assumes no responsibility for the correctness of the same. Neither the Trustee nor any of its agents (a) makes any representation as to the validity or adequacy of this Indenture or the Securities and (b) shall be accountable for the Company's use or application of the proceeds from the Securities.

Section 7.05. *Notice of Default*. If any Default with respect to the Securities of any series occurs and is continuing and if such Default is known to the actual knowledge of a Responsible Officer with the Corporate Trust Office of the Trustee, the Trustee shall give to each Holder of Securities of such series notice of such Default within 90 days after it occurs to all Holders of Securities of such series in the manner and to the extent provided in Section 313(a) of the Trust Indenture Act, unless such Default shall have been cured or waived before the mailing of such notice; *provided*, *however*, that, except in the case of a Default in the payment of the Principal of or interest on any Security, the Trustee shall be protected in withholding such notice if the Trustee in good faith determines that the withholding of such notice is in the interests of the Holders.

Section 7.06. *Reports by Trustee to Holders*. The Trustee shall transmit to Holders such reports concerning the Trustee and its actions under this Indenture as may be required pursuant to the Trust Indenture Act at the times and in the manner provided pursuant thereto. If required by Section 313(a) of the Trust Indenture Act, the Trustee shall, within 60 days after each May 15 following the date of this Indenture, deliver to Holders a brief report, dated as of such May 15, which complies with the provisions of such Section 313(a).

A copy of each such report shall, at the time of such transmission to Holders, be filed by the Trustee with each stock exchange upon which any Securities are listed, with the Commission and with the Company. The Company will promptly notify the Trustee when any Securities are listed on any stock exchange.

Section 7.07. *Compensation and Indemnity*. The Company shall pay to the Trustee such compensation as shall be agreed upon in writing from time to time for its services. The compensation of the Trustee shall not be limited by any law on compensation of a Trustee of an express trust. The Company shall reimburse the Trustee and any predecessor Trustee upon request for all reasonable out-of-pocket expenses, disbursements and advances incurred or made by the Trustee or such predecessor Trustee. Such expenses shall include the reasonable compensation and expenses of the Trustee's or such predecessor Trustee's agents, counsel and other persons not regularly in their employ.

The Company shall indemnify the Trustee and any predecessor Trustee for, and hold them harmless against, any loss or liability or expense incurred by them without negligence or bad faith on their part arising out of or in connection with the acceptance or administration of this Indenture and the Securities or the issuance of the Securities or of series thereof or the trusts hereunder and the performance of duties under this Indenture and the Securities, including the costs and expenses of defending themselves against or investigating any claim or liability and of complying with any process served upon them or any of their officers in connection with the exercise or performance of any of their powers or duties under this Indenture and the Securities.

To secure the Company's payment obligations in this Section 7.07, the Trustee shall have a lien prior to the Securities on all money or property held or collected by the Trustee, in its capacity as Trustee, except money or property held in trust to pay Principal of, and interest on particular Securities.

The obligations of the Company under this Section to compensate and indemnify the Trustee and each predecessor Trustee and to pay or reimburse the Trustee and each predecessor Trustee for expenses, disbursements and advances shall constitute additional indebtedness hereunder and shall survive the satisfaction and discharge of this Indenture or the rejection or termination of this Indenture under bankruptcy law. Such additional indebtedness shall be a senior claim to that of the Securities upon all property and funds held or collected by the Trustee as such, except funds held in trust for the benefit of the

Holders of particular Securities, and the Securities are hereby subordinated to such senior claim. Without prejudice to any other rights available to the Trustee under applicable law, if the Trustee renders services and incurs expenses following an Event of Default under Section 6.01(d) or Section 6.01(e) hereof, the parties hereto and the holders by their acceptance of the Securities hereby agree that such expenses are intended to constitute expenses of administration under any bankruptcy law.

Section 7.08. *Replacement of Trustee*. A resignation or removal of the Trustee as Trustee with respect to the Securities of any series and appointment of a successor Trustee as Trustee with respect to the Securities of any series shall become effective only upon the successor Trustee's acceptance of appointment as provided in this Section 7.08.

The Trustee may resign as Trustee with respect to the Securities of any series at any time by so notifying the Company in writing. The Holders of a majority in Principal amount of the outstanding Securities of any series may remove the Trustee as Trustee with respect to the Securities of such series by so notifying the Trustee in writing and may appoint a successor Trustee with respect thereto with the consent of the Company. The Company may remove the Trustee as Trustee with respect to the Securities of any series if: (i) the Trustee is no longer eligible under Section 7.11 of this Indenture; (ii) the Trustee is adjudged a bankrupt or insolvent; (iii) a receiver or other public officer takes charge of the Trustee or its property; or (iv) the Trustee becomes incapable of acting.

If the Trustee resigns or is removed as Trustee with respect to the Securities of any series, or if a vacancy exists in the office of Trustee with respect to the Securities of any series for any reason, the Company shall promptly appoint a successor Trustee with respect thereto. Within one year after the successor Trustee takes office, the Holders of a majority in Principal amount of the outstanding Securities of such series may appoint a successor Trustee in respect of such Securities to replace the successor Trustee appointed by the Company. If the successor Trustee with respect to the Securities of any series does not deliver its written acceptance required by Section 7.09 within 30 days after the retiring Trustee resigns or is removed, the retiring Trustee, the Company or the Holders of a majority in Principal amount of the outstanding Securities of such series may petition any court of competent jurisdiction for the appointment of a successor Trustee with respect thereto.

The Company shall give notice of any resignation and any removal of the Trustee with respect to the Securities of any series and each appointment of a successor Trustee in respect of the Securities of such series to all Holders of Securities of such series. Each notice shall include the name of the successor Trustee and the address of its Corporate Trust Office.

Notwithstanding replacement of the Trustee with respect to the Securities of any series pursuant to this Section 7.08 and Section 7.09, the Company's obligations under Section 7.07 shall continue for the benefit of the retiring Trustee.

Section 7.09. Acceptance of Appointment by Successor. In case of the appointment hereunder of a successor Trustee with respect to all Securities, every such successor Trustee so appointed shall execute, acknowledge and deliver to the Company and to the retiring Trustee an instrument accepting such appointment, and thereupon the resignation or removal of the retiring Trustee shall become effective and such successor Trustee, without any further act, deed or conveyance, shall become vested with all the rights, powers, trusts and duties of the retiring Trustee; but, on the request of the Company or the successor Trustee, such retiring Trustee shall, upon payment of its charges and subject to the lien provided for in Section 7.07, execute and deliver an instrument transferring to such successor Trustee all the rights, powers and trusts of the retiring Trustee and shall duly assign, transfer and deliver to such successor Trustee all property and money held by such retiring Trustee hereunder.

In case of the appointment hereunder of a successor Trustee with respect to the Securities of one or more (but not all) series, the Company, the retiring Trustee and each successor Trustee with respect to the Securities of one or more series shall execute and deliver an indenture supplemental hereto wherein each successor Trustee shall accept such appointment and which (1) shall contain such provisions as shall be necessary or desirable to transfer and confirm to, and to vest in, each successor Trustee all the rights,

powers, trusts and duties of the retiring Trustee with respect to the Securities of that or those series to which the appointment of such successor Trustee relates, (2) if the retiring Trustee is not retiring with respect to all Securities, shall contain such provisions as shall be deemed necessary or desirable to confirm that all the rights, powers, trusts and duties of the retiring Trustee with respect to the Securities of that or those series as to which the retiring Trustee is not retiring shall continue to be vested in the retiring Trustee, and (3) shall add to or change any of the provisions of this Indenture as shall be necessary to provide for or facilitate the administration of the trusts hereunder by more than one Trustee, it being understood that nothing herein or in such supplemental indenture shall constitute such Trustees co-trustees of the same trust and that each such Trustee shall be trustee of a trust or trusts hereunder separate and apart from any trust or trusts hereunder administered by any other such Trustee; and upon the execution and delivery of such supplemental indenture the resignation or removal of the retiring Trustee shall become effective to the extent provided therein and each such successor Trustee, without any further act, deed or conveyance, shall become vested with all the rights, powers, trusts and duties of the retiring Trustee with respect to the Securities of that or those series to which the appointment of such successor Trustee relates; but, on request of the Company or any successor Trustee, such retiring Trustee shall duly assign, transfer and deliver to such successor Trustee all property and money held by such retiring Trustee hereunder with respect to the Securities of that or those series to which the appointment of such successor Trustee relates.

Upon request of any such successor Trustee, the Company shall execute any and all instruments for more fully and certainly vesting in and confirming to such successor Trustee all such rights, powers and trusts referred to in the first or second preceding paragraph, as the case may be.

No successor Trustee shall accept its appointment unless at the time of such acceptance such successor Trustee shall be eligible under this Article and qualified under Section 310(b) of the Trust Indenture Act.

Section 7.10. Successor Trustee By Merger, Etc. If the Trustee consolidates with, merges or converts into, or transfers all or substantially all of its corporate trust business to, another corporation or national banking association, the resulting, surviving or transferee corporation or national banking association without any further act shall be the successor Trustee with the same effect as if the successor Trustee had been named as the Trustee herein.

Section 7.11. *Eligibility*. This Indenture shall always have a Trustee who satisfies the requirements of Trust Indenture Act Section 310(a). The Trustee shall have a combined capital and surplus of at least \$25,000,000 as set forth in its most recent published annual report of condition.

Section 7.12. *Money Held in Trust*. The Trustee shall not be liable for interest on any money received by it except as the Trustee may agree in writing with the Company. Money held in trust by the Trustee need not be segregated from other funds except to the extent required by law and except for money held in trust under Article 8 of this Indenture.

ARTICLE 8

SATISFACTION AND DISCHARGE OF INDENTURE; UNCLAIMED MONEYS

Section 8.01. Satisfaction and Discharge of Indenture. If at any time (a) (i) all Securities of any series issued that have been authenticated and delivered have been delivered by the Company to the Trustee for cancellation (other than Securities of such series which have been destroyed, lost or stolen and which have been replaced or paid as provided in Section 2.08); or (ii) all the Securities of any series issued that have not been delivered by the Company to the Trustee for cancellation shall have become due and payable, or are by their terms to become due and payable within one year or are to be called for redemption within one year under arrangements satisfactory to the Trustee for the giving of notice of redemption by such Trustee in the Company's name and at the Company's expense, the Company shall have irrevocably deposited or caused to be deposited with the Trustee as trust funds the entire amount in cash (other than moneys repaid by the Trustee or any paying agent to the Company in accordance with Section 8.04) or U.S. Government Obligations, maturing as to principal and interest in such amounts and at such times as will

insure (without consideration of the reinvestment of such interest) the availability of cash, or a combination thereof, sufficient to pay at maturity or upon redemption all Securities of such series (other than any Securities of such series which shall have been destroyed, lost or stolen and which shall have been replaced or paid as provided in Section 2.08) not theretofore delivered to the Trustee for cancellation, including Principal and interest due or to become due on or prior to such date of maturity or redemption as the case may be; (b) the Company has paid or caused to be paid all other sums then due and payable under this Indenture; and (c) the Company has delivered to the Trustee an Officers' Certificate and an Opinion of Counsel, each stating that all conditions precedent under this Indenture relating to the satisfaction and discharge of this Indenture pursuant to this Section 8.01 have been complied with, then this Indenture shall cease to be of further effect with respect to Securities of such series (except as to (i) rights of registration of transfer and exchange of securities of such series, and the Company's right of optional redemption, if any, (ii) substitution of mutilated, defaced, destroyed, lost or stolen Securities, (iii) rights of holders to receive payments of Principal thereof and interest thereon, upon the original stated due dates therefor (but not upon acceleration) and remaining rights of the holders to receive mandatory sinking fund payments, if any, (iv) the rights, obligations and immunities of the Trustee hereunder and (v) the rights of the Securityholders of such series as beneficiaries hereof with respect to the property so deposited with the Trustee payable to all or any of them), and the Trustee, on demand of the Company accompanied by an Officers' Certificate and an Opinion of Counsel and at the cost and expense of the Company, shall execute proper instruments acknowledging such satisfaction of and discharging this Indenture with respect to such series; provided that the rights of Holders of the Securities to receive amounts in respect of Principal of and interest on the Securities held by them shall not be delayed longer than required by then-applicable mandatory rules or policies of any securities exchange upon which the Securities are listed. The Company agrees to reimburse the Trustee for any costs or expenses thereafter reasonably and properly incurred and to compensate the Trustee for any services thereafter reasonably and properly rendered by the Trustee in connection with this Indenture or the Securities of such series.

Section 8.02. Application by Trustee of Funds Deposited for Payment of Securities. Subject to Section 8.04, all moneys (including U.S. Government Obligations and the proceeds thereof) deposited with the Trustee pursuant to Section 8.01, Section 8.05 or Section 8.06 shall be held in trust and applied by it to the payment, either directly or through any paying agent to the Holders of the particular Securities of such series for the payment or redemption of which such moneys have been deposited with the Trustee, of all sums due and to become due thereon for Principal and interest; but such money need not be segregated from other funds except to the extent required by law.

Section 8.03. *Repayment of Moneys Held by Paying Agent*. In connection with the satisfaction and discharge of this Indenture with respect to Securities of any series, all moneys then held by any paying agent under the provisions of this Indenture with respect to such series of Securities shall, upon demand of the Company, be repaid to it or paid to the Trustee and thereupon such paying agent shall be released from all further liability with respect to such moneys.

Section 8.04. *Return of Moneys Held by Trustee and Paying Agent Unclaimed for Two Years*. Any moneys deposited with or paid to the Trustee or any paying agent for the payment of the Principal of or interest on any Security of any series and not applied but remaining unclaimed for two years after the date upon which such Principal or interest shall have become due and payable, shall, upon the written request of the Company and unless otherwise required by mandatory provisions of applicable escheat or abandoned or unclaimed property law, be repaid to the Company by the Trustee for such series or such paying agent, and the Holder of the Security of such series shall, unless otherwise required by mandatory provisions of applicable escheat or abandoned or unclaimed property laws, thereafter look only to the Company for any payment which such Holder may be entitled to collect, and all liability of the Trustee or any paying agent with respect to such moneys shall thereupon cease.

Section 8.05. *Defeasance and Discharge of Indenture*. The Company shall be deemed to have paid and shall be discharged from any and all obligations in respect of the Securities of any series, after the deposit referred to in clause (i) hereof has been made, and the provisions of this Indenture shall no longer be in effect with respect to the Securities of such series (and the Trustee, at the expense of the Company, shall execute proper instruments acknowledging the same), except as to: (a) rights of Holders of the

Securities of such series to receive payments of Principal thereof, premium thereto, and interest thereon, upon the original stated due dates therefor, (b) the Company's obligations with respect to the issuance of temporary Securities and the registration of transfer with respect to the Securities of such series, the Company's right of optional redemption, substitution of mutilated, defaced, destroyed, lost or stolen Securities of such series and the maintenance of an office or agency for payment for security payments held in trust pursuant to clause (i) hereof, (c) the rights, obligations and immunities of the Trustee hereunder, and (d) the defeasance provisions contained in Article 8 of this Indenture; provided that the following conditions shall have been satisfied:

- (i) with reference to this Section 8.05 the Company irrevocably has deposited or caused to be deposited with the Trustee (or another qualifying trustee satisfying the requirements of Section 7.11) as trust funds in trust, for the purposes of making the following payments, specifically pledged as security for, and dedicated solely to, the benefit of the Holders of the Securities of such series, (A) money in an amount, (B) U.S. Government Obligations which through the payment of interest and principal in respect thereof in accordance with their terms will provide not later than one day before the due date of any payment referred to in subclause (x) or (y) of this clause (i), or (C) a combination thereof, in each case sufficient, in the written opinion of a nationally recognized firm of independent public accountants expressed in a written certification thereof delivered to the Trustee, to pay and discharge, without consideration of reinvestment and after payment of all federal, state and local taxes or other charges and assessments in respect thereof, and which shall be applied by the Trustee to pay and discharge (x) all of the Principal of, premium, if any, and each installment of interest on the outstanding Securities of such series on the maturity or due dates thereof or if the Company has made irrevocable arrangements satisfactory to the Trustee for the giving of notice of redemption by the Trustee, the redemption date, as the case may be, and (y) any mandatory sinking fund payments or analogous payments applicable to the Securities of such series on the day on which such payments are due and payable in accordance with the terms of Securities of such series and the Indenture with respect to the Securities of such series;
- (ii) the Company has delivered to the Trustee an Opinion of Counsel to the effect that, under then applicable U.S. federal income tax law, Holders of Securities of such series will not recognize gain or loss for U.S. federal income tax purposes as a result of the Company's exercise of its option under this Section 8.05 and will be subject to U.S. federal income tax on the same amount and in the same manner and at the same times as would have been the case if such deposit, defeasance and discharge had not occurred;
 - (iii) no Default under either clause (d) or clause (e) of Section 6.01 shall have occurred and be continuing at such time;
- (iv) if at such time the Securities of such series are listed on a national securities exchange, the Company has delivered to the Trustee an Opinion of Counsel to the effect that the Securities of such series will not be delisted as a result of such deposit, defeasance and discharge;
- (v) the Company shall have delivered to the Trustee an Officers' Certificate and an Opinion of Counsel, each stating that all conditions precedent to the defeasance and discharge under this Section 8.05 have been complied with; and
- (vi) if the Securities of such series are to be redeemed prior to the final maturity thereof (other than from mandatory sinking fund payments or analogous payments), notice of such redemption shall have been duly given pursuant to this Indenture or provision therefor satisfactory to the Trustee shall have been made.

Section 8.06. *Defeasance of Certain Obligations*. The Company may omit to comply with any term, provision or condition set forth in, and this Indenture will no longer be in effect with respect to, any covenant established pursuant to Section 2.03(s) and clause (c) and clause (f) (with respect to any

covenants established pursuant to Section 2.03(s)) of Section 6.01 shall be deemed not to constitute a Default or an Event of Default with respect to Securities of any series, if:

- (a) with reference to this Section 8.06, the Company has irrevocably deposited or caused to be deposited with the Trustee (or another qualifying trustee satisfying the requirements of Section 7.11) as trust funds in trust, for the purposes of making the following payments, specifically pledged as security for, and dedicated solely to, the benefits of the Holders of the Securities of such series, (i) money in an amount, (ii) U.S. Government Obligations which through the payment of interest and principal in respect thereof in accordance with their terms will provide not later than one day before the due date of any payment referred to in subclause (x) or (y) of this clause (a), or (iii) a combination thereof, in each case sufficient, in the written opinion of a nationally recognized firm of independent public accountants expressed in a written certification thereof delivered to the Trustee, to pay and discharge, without consideration of reinvestment and after payment of all federal, state and local taxes or other charges and assessments in respect thereof, and which shall be applied by the Trustee to pay and discharge (x) all of the Principal of, premium, if any, and each installment of interest on the outstanding Securities of such series on the maturity or due dates thereof or if the Company has made irrevocable arrangements satisfactory to the Trustee for the giving of notice of redemption by the Trustee, the redemption date, as the case may be, and (y) any mandatory sinking fund payments or analogous payments applicable to the Securities of such series on the day on which such payments are due and payable in accordance with the terms of the Securities of such series and the Indenture with respect to the Securities of such series and the
- (b) the Company has delivered to the Trustee an Opinion of Counsel to the effect that Holders of Securities of such series will not recognize gain or loss for U.S. federal income tax purposes as a result of the Company's exercise of its option under this Section 8.06 and will be subject to U.S. federal income tax on the same amount and in the same manner and at the same times as would have been the case if such deposit and defeasance had not occurred;
- (c) no Default with respect to the outstanding Securities of such series shall have occurred and be continuing at the time of such deposit immediately after giving effect to such deposit;
- (d) if at such time the Securities of such series are listed on a national securities exchange, the Company has delivered to the Trustee an Opinion of Counsel to the effect that the Securities of such series will not be delisted as a result of such deposit, defeasance and discharge;
- (e) the Company shall have delivered to the Trustee an Officers' Certificate and an Opinion of Counsel, each stating that all conditions precedent to the defeasance under this Section have been complied with; and
- (f) if the Securities of such series are to be redeemed prior to the final maturity thereof (other than from mandatory sinking fund payments or analogous payments), notice of such redemption shall have been duly given pursuant to this Indenture or provision therefor satisfactory to the Trustee shall have been made.

Section 8.07. *Reinstatement*. If the Trustee or paying agent is unable to apply any monies or U.S. Government Obligations in accordance with Article 8 by reason of any legal proceeding or by reason of any order or judgment of any court or governmental authority enjoining, restraining or otherwise prohibiting such application, the Company's obligations under this Indenture and the Securities shall be revived and reinstated as though no deposit had occurred pursuant to this Article until such time as the Trustee or paying agent is permitted to apply all such monies or U.S. Government Obligations in accordance with Article 8; *provided*, *however*, that if the Company has made any payment of Principal of or interest on any Securities because of the reinstatement of its obligations, the Company shall be subrogated to the rights of the Holders of such Securities to receive such payment from the monies or U.S. Government Obligations held by the Trustee or paying agent.

Section 8.08. *Indemnity*. The Company shall pay and indemnify the Trustee (or other qualifying trustee, collectively for purposes of this Section 8.08 and Section 8.02, the "**Trustee**") against

any tax, fee or other charge, imposed on or assessed against the U.S. Government Obligations deposited pursuant to Section 8.01, 8.05 or 8.06 or the principal or interest received in respect thereof other than any such tax, fee or other charge which by law is for the account of the Holders of the Securities.

Section 8.09. *Excess Funds*. Anything in this Article 8 to the contrary notwithstanding, the Trustee shall deliver or pay to the Company from time to time upon request of the Company, any money or U.S. Government Obligations (or other property and any proceeds therefrom) held by it as provided in Section 8.01, 8.05 or 8.06 which, in the opinion of a nationally recognized firm of independent public accountants expressed in a written certification thereof delivered to the Trustee, are in excess of the amount thereof which would then be required to be deposited to effect a discharge or defeasance, as applicable, in accordance with this Article 8.

Section 8.10. *Qualifying Trustee*. Any trustee appointed pursuant to Section 8.05 or 8.06 for the purpose of holding money or U.S. Government Obligations deposited pursuant to such Sections shall be appointed under an agreement in form acceptable to the Trustee and shall provide to the Trustee a certificate, upon which certificate the Trustee shall be entitled to conclusively rely, that all conditions precedent provided for herein to the related defeasance have been complied with. In no event shall the Trustee be liable for any acts or omissions of said trustee.

ARTICLE 9 AMENDMENTS, SUPPLEMENTS AND WAIVERS

Section 9.01. Without Consent of Holders. The Company and the Trustee may amend or supplement this Indenture or the Securities of any series without notice to or the consent of any Holder:

- (a) to cure any ambiguity, defect or inconsistency in this Indenture;
- (b) to comply with Article 5;
- (c) to maintain the qualification of this Indenture under the Trust Indenture Act;
- (d) to evidence and provide for the acceptance of appointment hereunder with respect to the Securities of any or all series by a successor Trustee and to add to or change any of the provisions of this Indenture as shall be necessary to provide for or facilitate the administration of the trusts hereunder by more than one Trustee, pursuant to the requirements of Section 7.09;
 - (e) to establish the form or forms or terms of Securities of any series as permitted by Section 2.03;
 - (f) to provide for uncertificated Securities and to make all appropriate changes for such purpose;
- (g) to conform any provision to the applicable corresponding provision set forth in the offering document for the offering of such series of Securities; and
 - (h) to make any change that does not materially and adversely affect the rights of any Holder.

Section 9.02. With Consent of Holders. Subject to Sections 6.04 and 6.07, without prior notice to any Holders, the Company and the Trustee may amend this Indenture and the Securities of any series with the written consent of the Holders of a majority in Principal amount of the outstanding Securities of each series affected by such amendment (all such series voting together as a single class), and the Holders of a majority in Principal amount of the outstanding Securities of each series affected thereby (all such series voting together as a single class) by written notice to the Trustee may waive future compliance by the Company with any provision of this Indenture or the Securities of such series.

Notwithstanding the provisions of this Section 9.02, without the consent of each Holder affected thereby, an amendment or waiver, including a waiver pursuant to Section 6.04, may not:

- (a) change the stated maturity of the Principal of, or any sinking fund obligation or any installment of interest on, such Holder's Security,
- (b) reduce the Principal amount thereof or the rate of interest thereon (including any amount in respect of original issue discount);
- (c) reduce the above stated percentage of outstanding Securities the consent of whose holders is necessary to modify or amend the Indenture with respect to the Securities of the relevant series; and
- (d) reduce the percentage in Principal amount of outstanding Securities of the relevant series the consent of whose Holders is required for any supplemental indenture or for any waiver of compliance with certain provisions of this Indenture or certain Defaults and their consequences provided for in this Indenture.

A supplemental indenture which changes or eliminates any covenant or other provision of this Indenture which has expressly been included solely for the benefit of one or more particular series of Securities, or which modifies the rights of Holders of Securities of such series with respect to such covenant or provision, shall be deemed not to affect the rights under this Indenture of the Holders of Securities of any other series.

It shall not be necessary for the consent of any Holder under this Section 9.02 to approve the particular form of any proposed amendment, supplement or waiver, but it shall be sufficient if such consent approves the substance thereof.

After an amendment, supplement or waiver under this Section 9.02 becomes effective, the Company shall give to the Holders affected thereby a notice briefly describing the amendment, supplement or waiver. The Company will mail supplemental indentures to Holders upon request. Any failure of the Company to mail such notice, or any defect therein, shall not, however, in any way impair or affect the validity of any such supplemental indenture or waiver.

Section 9.03. *Revocation and Effect of Consent*. Until an amendment or waiver becomes effective, a consent to it by a Holder is a continuing consent by the Holder and every subsequent Holder of a Security or portion of a Security that evidences the same debt as the Security of the consenting Holder, even if notation of the consent is not made on any Security. However, any such Holder or subsequent Holder may revoke the consent as to its Security or portion of its Security. Such revocation shall be effective only if the Trustee receives the notice of revocation before the date the amendment, supplement or waiver becomes effective. An amendment, supplement or waiver shall become effective with respect to any Securities affected thereby on receipt by the Trustee of written consents from the requisite Holders of outstanding Securities affected thereby.

The Company may, but shall not be obligated to, fix a record date (which may be not less than five nor more than 60 days prior to the solicitation of consents) for the purpose of determining the Holders of the Securities of any series affected entitled to consent to any amendment, supplement or waiver. If a record date is fixed, then, notwithstanding the immediately preceding paragraph, those Persons who were such Holders at such record date (or their duly designated proxies) and only those Persons shall be entitled to consent to such amendment, supplement or waiver or to revoke any consent previously given, whether or not such Persons continue to be such Holders after such record date. No such consent shall be valid or effective for more than 90 days after such record date.

After an amendment, supplement or waiver becomes effective with respect to the Securities of any series affected thereby, it shall bind every Holder of such Securities unless it is of the type described in any of clauses (a) through (d) of Section 9.02. In case of an amendment or waiver of the type described in

clauses (a) through (d) of Section 9.02, the amendment or waiver shall bind each such Holder who has consented to it and every subsequent Holder of a Security that evidences the same indebtedness as the Security of the consenting Holder.

Section 9.04. *Notation on or Exchange of Securities*. If an amendment, supplement or waiver changes the terms of any Security, the Trustee may require the Holder thereof to deliver it to the Trustee. The Trustee may place an appropriate notation on the Security about the changed terms and return it to the Holder and the Trustee may place an appropriate notation on any Security of such series thereafter authenticated. Alternatively, if the Company or the Trustee so determines, the Company in exchange for the Security shall issue and the Trustee shall authenticate a new Security of the same series and tenor that reflects the changed terms.

Section 9.05. *Trustee to Sign Amendments*, *Etc.* The Trustee shall be entitled to receive, and shall be fully protected in relying upon, an Opinion of Counsel stating that the execution of any amendment, supplement or waiver authorized pursuant to this Article 9 is authorized or permitted by this Indenture, stating that all requisite consents have been obtained or that no consents are required and stating that such supplemental indenture constitutes the legal, valid and binding obligation of the Company, enforceable against the Company in accordance with its terms, subject to customary exceptions. The Trustee may, but shall not be obligated to, execute any such amendment, supplement or waiver that affects the Trustee's own rights, duties or immunities under this Indenture or otherwise

Section 9.06. *Conformity with Trust Indenture Act*. Every supplemental indenture executed pursuant to this Article 9 shall conform to the requirements of the Trust Indenture Act as then in effect.

ARTICLE 10 MISCELLANEOUS

Section 10.01. *Trust Indenture Act of 1939*. This Indenture shall incorporate and be governed by the provisions of the Trust Indenture Act that are required to be part of and to govern indentures qualified under the Trust Indenture Act.

Section 10.02. *Notices*. Any notice or communication shall be sufficiently given if written and (a) if delivered in person, when received or (b) if mailed by first class mail, 5 days after mailing, or (c) as between the Company and the Trustee if sent by facsimile transmission, when transmission is confirmed, in each case addressed as follows:

if to the Company:

The Company or the Trustee by written notice to the other may designate additional or different addresses for subsequent notices or communications.

Any notice or communication shall be sufficiently given to Holders by mailing to such Holders at their addresses as they shall appear on the Security Register. Notice mailed shall be sufficiently given if so mailed within the time prescribed. Copies of any such communication or notice to a Holder shall also be mailed to the Trustee and each Agent at the same time.

Failure to mail a notice or communication to a Holder or any defect in it shall not affect its sufficiency with respect to other Holders. Except as otherwise provided in this Indenture, if a notice or communication is mailed in the manner provided in this Section 10.02, it is duly given, whether or not the addressee receives it.

Where this Indenture provides for notice in any manner, such notice may be waived in writing by the Person entitled to receive such notice, either before or after the event, and such waiver shall be the equivalent of such notice. Waivers of notice by Holders shall be filed with the Trustee, but such filing shall not be a condition precedent to the validity of any action taken in reliance upon such waiver.

In case it shall be impracticable to give notice as herein contemplated, then such notification as shall be made with the approval of the Trustee shall constitute a sufficient notification for every purpose hereunder.

Section 10.03. *Certificate and Opinion as to Conditions Precedent*. Upon any request or application by the Company to the Trustee to take any action under this Indenture, the Company shall furnish to the Trustee:

- (a) an Officers' Certificate stating that, in the opinion of the signers, all conditions precedent, if any, provided for in this Indenture relating to the proposed action have been complied with; and
 - (b) an Opinion of Counsel stating that, in the opinion of such counsel, all such conditions precedent have been complied with.

Section 10.04. *Statements Required in Certificate or Opinion*. Each certificate or opinion with respect to compliance with a condition or covenant provided for in this Indenture (other than the certificate required by Section 4.04) shall include:

- (a) a statement that each person signing such certificate or opinion has read such covenant or condition and the definitions herein relating thereto;
- (b) a brief statement as to the nature and scope of the examination or investigation upon which the statement or opinion contained in such certificate or opinion is based;
- (c) a statement that, in the opinion of each such person, he has made such examination or investigation as is necessary to enable him to express an informed opinion as to whether or not such covenant or condition has been complied with; and
- (d) a statement as to whether or not, in the opinion of each such person, such condition or covenant has been complied with; *provided*, *however*, that, with respect to matters of fact, an Opinion of Counsel may rely on an Officers' Certificate or certificates of public officials.

Section 10.05. *Evidence of Ownership*. The Company, the Trustee and any agent of the Company or the Trustee may deem and treat the person in whose name any Security shall be registered upon the Security Register for such series as the absolute owner of such Security (whether or not such Security shall be overdue and notwithstanding any notation of ownership or other writing thereon) for the purpose of receiving payment of or on account of the Principal of and, subject to the provisions of this Indenture, interest on such Security and for all other purposes; and neither the Company nor the Trustee nor any agent of the Company or the Trustee shall be affected by any notice to the contrary.

Section 10.06. *Rules by Trustee, Paying Agent or Registrar*. The Trustee may make reasonable rules for action by or at a meeting of Holders. The Paying Agent or Registrar may make reasonable rules for its functions.

Section 10.07. *Payment Date Other Than a Business Day*. Except as otherwise provided with respect to a series of Securities, if any date for payment of Principal or interest on any Security shall not be a Business Day at any place of payment, then payment of Principal of or interest on such Security, as the case may be, need not be made on such date, but may be made on the next succeeding Business Day at any place of payment with the same force and effect as if made on such date and no interest shall accrue in respect of such payment for the period from and after such date.

Section 10.08. Governing Law. The laws of the State of New York shall govern this Indenture and the Securities.

Section 10.09. *No Adverse Interpretation of Other Agreements*. This Indenture may not be used to interpret another indenture or loan or debt agreement of the Company or any Subsidiary of the Company. Any such indenture or agreement may not be used to interpret this Indenture.

Section 10.10. *Successors*. All agreements of the Company in this Indenture and the Securities shall bind its successors. All agreements of the Trustee in this Indenture shall bind its successors.

Section 10.11. *Duplicate Originals*. The parties may sign any number of copies of this Indenture. Each signed copy shall be an original, but all of them together represent the same agreement.

Section 10.12. *Separability*. In case any provision in this Indenture or in the Securities shall be invalid, illegal or unenforceable, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired thereby.

Section 10.13. *Table of Contents*, *Headings*, *Etc.* The Table of Contents and headings of the Articles and Sections of this Indenture have been inserted for convenience of reference only, are not to be considered a part hereof and shall in no way modify or restrict any of the terms and provisions hereof.

Section 10.14. *Incorporators, Stockholders, Officers and Directors of Company Exempt from Individual Liability*. No recourse under or upon any obligation, covenant or agreement contained in this Indenture or any indenture supplemental hereto, or in any Security, or because of any indebtedness evidenced thereby, shall be had against any incorporator, as such or against any past, present or future stockholder, officer, director or employee, as such, of the Company or of any successor, either directly or through the Company or any successor, under any rule of law, statute or constitutional provision or by the enforcement of any assessment or by any legal or equitable proceeding or otherwise, all such liability being expressly waived and released by the acceptance of the Securities by the holders thereof and as part of the consideration for the issue of the Securities.

Section 10.15. *Judgment Currency*. The Company agrees, to the fullest extent that it may effectively do so under applicable law, that (a) if for the purpose of obtaining judgment in any court it is necessary to convert the sum due in respect of the Principal of or interest on the Securities of any series (the "Required Currency") into a currency in which a judgment will be rendered (the "Judgment Currency"), the rate of exchange used shall be the rate at which in accordance with normal banking procedures the Trustee could purchase in The City of New York the Required Currency with the Judgment Currency on the day on which final unappealable judgment is entered, unless such day is not a Business Day, then, to the extent permitted by applicable law, the rate of exchange used shall be the rate at which in accordance with normal banking procedures the Trustee could purchase in The City of New York the Required Currency with the Judgment Currency on the Business Day preceding the day on which final unappealable judgment is entered and (b) its obligations under this Indenture to make payments in the Required Currency (i) shall not be discharged or satisfied by any tender, or any recovery pursuant to any judgment (whether or not entered in accordance with subsection (a)), in any currency other than the Required Currency, except to

the extent that such tender or recovery shall result in the actual receipt, by the payee, of the full amount of the Required Currency expressed to be payable in respect of such payments, (ii) shall be enforceable as an alternative or additional cause of action for the purpose of recovering in the Required Currency the amount, if any, by which such actual receipt shall fall short of the full amount of the Required Currency so expressed to be payable and (iii) shall not be affected by judgment being obtained for any other sum due under this Indenture.

Section 10.16. Waiver of Jury Trial. EACH OF THE COMPANY AND THE TRUSTEE IRREVOCABLY WAIVES, TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, ANY AND ALL RIGHT TO TRIAL BY JURY IN ANY LEGAL PROCEEDING ARISING OUT OF OR RELATING TO THIS INDENTURE, THE SECURITIES OR THE TRANSACTIONS CONTEMPLATED HEREBY.

Section 10.17. *Force Majeure*. In no event shall the Trustee be responsible or liable for any failure or delay in the performance of its obligations hereunder arising out of or caused by, directly or indirectly, forces beyond its control, including, without limitation, strikes, work stoppages, accidents, acts of war or terrorism, civil or military disturbances, nuclear or natural catastrophes or acts of God, and interruptions, loss or malfunctions of utilities, communications or computer (software and hardware) services; it being understood that the Trustee shall use reasonable efforts which are consistent with accepted practices in the banking industry to resume performance as soon as practicable under the circumstances.

SIGNATURES

IN WITNESS WHEREOF, the parties hereto have caused this Indenture to be duly executed, all as of the date first written above.

		AFFIMED N.V. as the Company	
		Ву:	
		Name:	
		Title:	
		N.	
		Name:	
[]	Title:	
as the Truste	e		
By:			
Nam	e·		
Title			
Title	•		

Affimed N.V.
as the Company
and
[]
as Trustee
Subordinated Indenture
Dated as of [], []

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SUBORDINATED INDENTURE, dated as o	of [,], between Affimed N.V., a Dutch public company with limited liability (naamloze
vennootschap), as the Company, and [, as Trustee.		

RECITALS OF THE COMPANY

WHEREAS, the Company has duly authorized the issue from time to time of its subordinated debentures, notes or other evidences of indebtedness to be issued in one or more series (the "Securities") up to such principal amount or amounts as may from time to time be authorized in accordance with the terms of this Indenture and to provide, among other things, for the authentication, delivery and administration thereof, the Company has duly authorized the execution and delivery of this Indenture; and

WHEREAS, all things necessary to make this Indenture a valid indenture and agreement according to its terms have been done;

NOW, THEREFORE:

In consideration of the premises and the purchases of the Securities by the holders thereof, the Company and the Trustee mutually covenant and agree for the equal and proportionate benefit of the respective holders from time to time of the Securities or of any and all series thereof as follows:

ARTICLE 1

DEFINITIONS AND INCORPORATION BY REFERENCE

Section 1.01. Definitions.

"Affiliate" of any Person means any other Person directly or indirectly controlling or controlled by or under direct or indirect common control with such Person. For the purposes of this definition, "control" (including, with correlative meanings, the terms "controlling", "controlled by" and "under common control with") when used with respect to any Person means the possession, directly or indirectly, of the power to direct or cause the direction of the management and policies of such Person, whether through the ownership of voting securities, by contract or otherwise.

"Agent" means any Registrar, Paying Agent, transfer agent or Authenticating Agent.

"Board Resolution" means one or more resolutions of the board of directors of the Company or any authorized committee thereof, certified by the secretary or an assistant secretary to have been duly adopted and to be in full force and effect on the date of certification, and delivered to the Trustee.

"Business Day" means any day, other than a Saturday or Sunday, that is neither a legal holiday nor a day on which banking institutions are authorized or required by law or regulation to close (i) with respect to any Security the interest on which is based on the offered quotations in the interbank Eurodollar market for dollar deposits in London or in The City of New York or (ii) with respect to Securities denominated in a specified currency other than United States dollars, in the principal financial center of the country of the specified currency.

"Commission" means the Securities and Exchange Commission, as from time to time constituted, created under the Exchange Act or, if at any time after the execution of this instrument such Commission is not existing and performing the duties now assigned to it under the Trust Indenture Act, then the body performing such duties at such time.

"Company" means the party named as such in the first paragraph of this Indenture until a successor replaces it pursuant to Article 5 of this Indenture and thereafter means the successor.

"Corporate Trust Office" means the office of the Trustee at which the corporate trust business of the Trustee shall, at any particular time, be administered, which office is, at the date of this Indenture, located at [].

"Default" means any event that is, or after notice or passage of time or both would be, an Event of Default.

"Depositary" means, with respect to the Securities of any series issuable or issued in the form of one or more Registered Global Securities, the Person designated as Depositary by the Company pursuant to Section 2.03 until a

successor Depositary shall have become such pursuant to the applicable provisions of this Indenture, and thereafter "**Depositary**" shall mean or include each Person who is then a Depositary hereunder, and if at any time there is more than one such Person, "**Depositary**" as used with respect to the Securities of any such series shall mean the Depositary with respect to the Registered Global Securities of that series.

"Exchange Act" means the Securities Exchange Act of 1934, as amended.

"Guarantee" by any Person means any obligation, contingent or otherwise, of such Person directly or indirectly guaranteeing any Indebtedness or other obligation of any other Person and, without limiting the generality of the foregoing, any obligation, direct or indirect, contingent or otherwise, of such Person (i) to purchase or pay (or advance or supply funds for the purchase or payment of) such Indebtedness or other obligation (whether arising by virtue of partnership arrangements, by agreement to keep-well, to purchase assets, goods, securities or services, to take-or-pay, or to maintain financial statement conditions or otherwise) or (ii) entered into for the purpose of assuring in any other manner the obligee of such Indebtedness or other obligation of the payment thereof or to protect such obligee against loss in respect thereof (in whole or in part), provided that the term Guarantee shall not include endorsements for collection or deposit in the ordinary course of business. The term "Guarantee" when used as a verb has a corresponding meaning.

"Holder" or "Securityholder" means the registered holder of any Security.

"Indebtedness" of any Person means at any date, without duplication (i) all obligations of such Person for borrowed money, (ii) all obligations of such Person evidenced by bonds, debentures, notes or similar instruments, (iii) all obligations of such Person in respect of letters of credit or other similar instruments (or reimbursement obligations with respect thereto), (iv) all obligations of such Person to pay the deferred purchase price of property or services, except Trade Payables, (v) all obligations of such Person as a lessee under capital leases, (vi) all Indebtedness of others secured by a lien on any asset of such Person, whether or not such Indebtedness is assumed by such Person, (vii) all Indebtedness of others Guaranteed by such Person.

"IFRS" means International Financial Reporting Standards as issued by the International Accounting Standards Board, as in effect as of the date hereof.

"**Indenture**" means this Indenture as originally executed and delivered or as it may be amended or supplemented from time to time by one or more indentures supplemental to this Indenture entered into pursuant to the applicable provisions of this Indenture and shall include the forms and terms of the Securities of each series established as contemplated pursuant to Sections 2.01 and 2.03.

"Officer" means, with respect to the Company, the chairman of the board of directors, the president or chief executive officer, any executive vice president, any senior vice president, any vice president, the chief financial officer, the treasurer or any assistant treasurer, or the secretary or any assistant secretary.

"Officers' Certificate" means a certificate signed in the name of the Company (i) by the chairman of the board of directors, president or chief executive officer, an executive vice president, a senior vice president or a vice president, and (ii) by the chief financial officer, the treasurer or any assistant treasurer, or the secretary or any assistant secretary, and delivered to the Trustee. Each such certificate shall comply with Section 314 of the Trust Indenture Act, if applicable, and include (except as otherwise expressly provided in this Indenture) the statements provided in Section 10.04, if applicable.

"Opinion of Counsel" means a written opinion signed by legal counsel, who may be an employee of or counsel to the Company, satisfactory to the Trustee. Each such opinion shall comply with Section 314 of the Trust Indenture Act, if applicable, and include the statements provided in Section 10.04, if and to the extent required thereby.

"original issue date" of any Security (or portion thereof) means the earlier of (a) the date of authentication of such Security or (b) the date of any Security (or portion thereof) for which such Security was issued (directly or indirectly) on registration of transfer, exchange or substitution.

"Original Issue Discount Security" means any Security that provides for an amount less than the Principal amount thereof to be due and payable upon a declaration of acceleration of the maturity thereof pursuant to Section 6.02.

"**Periodic Offering**" means an offering of Securities of a series from time to time, the specific terms of which Securities, including, without limitation, the rate or rates of interest, if any, thereon, the stated maturity or maturities thereof and the redemption provisions, if any, with respect thereto, are to be determined by the Company or its agents upon the issuance of such Securities.

"**Person**" means an individual, a corporation, a partnership, a limited liability company, an association, a trust or any other entity or organization, including a government or political subdivision or an agency or instrumentality thereof.

"Principal" of a Security means the principal amount of, and, unless the context indicates otherwise, includes any premium payable on, the Security.

"Registered Global Security" means a Security evidencing all or a part of a series of Securities, issued to the Depositary for such series in accordance with Section 2.02, and bearing the legend prescribed in Section 2.02.

"Responsible Officer" when used with respect to the Trustee, shall mean an officer of the Trustee in the Corporate Trust Office, having direct responsibility for the administration of this Indenture, and also, with respect to a particular matter, any other officer to whom such matter is referred because of such officer's knowledge of and familiarity with the particular subject.

"Securities" means any of the securities, as defined in the first paragraph of the recitals hereof, that are authenticated and delivered under this Indenture.

"Securities Act" means the Securities Act of 1933, as amended.

"Senior Indebtedness" means all Indebtedness of the Company (other than the Securities) including principal and interest (including, without limitation, any interest that would accrue but for the filing of a petition initiating any proceeding referred to in Section 11.02 hereof) on such Indebtedness, created, incurred or assumed on or after the date of the first issuance of any Securities, unless such Indebtedness, but its terms or the terms of the instrument creating or evidencing it, is subordinate in right of payment to, or pari passu with, the Securities; provided, that the term Senior Indebtedness shall not include (a) any Indebtedness of the Company which, when incurred and without respect to any election under Section 111(b) of Title II, United States Code, with or without recourse to the Company, (b) any Indebtedness of the Company to a Subsidiary, (c) Indebtedness to any employee of the Company and (d) Trade Payables.

"Subsidiary" means, with respect to any Person, any corporation, association or other business entity of which a majority of the capital stock or other ownership interests having ordinary voting power to elect a majority of the board of directors or other persons performing similar functions are at the time directly or indirectly owned by such Person.

"Trade Payables" means accounts payable for any other indebtedness or monetary obligations to trade creditors created or assumed by the Company or any subsidiary of the Company in the ordinary course of business in connection with the obtaining of materials or services.

"**Trustee**" means the party named as such in the first paragraph of this Indenture until a successor replaces it in accordance with the provisions of Article 7 and thereafter shall mean or include each Person who is then a Trustee hereunder, and if at any time there is more than one such Person, "Trustee" as used with respect to the Securities of any series shall mean the Trustee with respect to Securities of that series.

"Trust Indenture Act" means the Trust Indenture Act of 1939, as amended (15 U.S. Code §§ 77aaa-77bbbb), as it may be amended from time to time.

"U.S. Government Obligations" means securities that are (i) direct obligations of the United States of America for the payment of which its full faith and credit is pledged or (ii) obligations of an agency or instrumentality of the United States of America the payment of which is unconditionally guaranteed as a full faith and credit obligation by the United States of America, and shall also include a depository receipt issued by a bank or trust company as custodian with respect to any such U.S. Government Obligation or a specific payment of interest on or principal of any such U.S. Government Obligation held by such custodian for the account of the holder of a depository receipt.

"Yield to Maturity" means, as the context may require, the yield to maturity (i) on a series of Securities or (ii) if the Securities of a series are issuable from time to time, on a Security of such series, calculated at the time of issuance of such series in the case of clause (i) or at the time of issuance of such Security of such series in the case of clause (ii), or, if applicable, at the most recent redetermination of interest on such series or on such Security, and calculated in accordance with the constant interest method or such other accepted financial practice as is specified in the terms of such Security.

Section 1.02. Other Definitions. Each of the following terms is defined in the section set forth opposite such term:

<u>Term</u>	Section
Authenticating Agent	2.02
cash transaction	7.03
Event of Default	6.01
Judgment Currency	10.15(a)
mandatory sinking fund payment	3.05
optional sinking fund payment	3.05
Paying Agent	2.05
record date	2.04
Registrar	2.05
Required Currency	10.15(a)
Security Register	2.05
self-liquidating paper	7.03
sinking fund payment date	3.05
Surviving Entity	5.01(a)
tranche	2.14

Section 1.03. *Incorporation by Reference of Trust Indenture Act*. Whenever this Indenture refers to a provision of the Trust Indenture Act, the provision is incorporated by reference in and made a part of this Indenture. The following terms used in this Indenture that are defined by the Trust Indenture Act have the following meanings:

All other terms used in this Indenture that are defined by the Trust Indenture Act, defined by reference in the Trust Indenture Act to another statute or defined by a rule of the Commission and not otherwise defined herein have the meanings assigned to them therein.

Section 1.04. Rules of Construction. Unless the context otherwise requires:

- (a) an accounting term not otherwise defined has the meaning assigned to it in accordance with IFRS;
- (b) words in the singular include the plural, and words in the plural include the singular;
- (c) "herein," "hereof" and other words of similar import refer to this Indenture as a whole and not to any particular Article, Section or other subdivision;
- (d) all references to Sections or Articles refer to Sections or Articles of this Indenture unless otherwise indicated; and
- (e) use of masculine, feminine or neuter pronouns should not be deemed a limitation, and the use of any such pronouns should be construed to include, where appropriate, the other pronouns.

[&]quot;indenture securities" means the Securities;

[&]quot;indenture security holder" means a Holder or a Securityholder;

[&]quot;indenture to be qualified" means this Indenture;

[&]quot;indenture trustee" or "institutional trustee" means the Trustee; and

[&]quot;obligor" on the indenture securities means the Company or any other obligor on the Securities.

ARTICLE 2

THE SECURITIES

Section 2.01. Form and Dating. The Securities of each series shall be substantially in such form or forms (not inconsistent with this Indenture) as shall be established by or pursuant to one or more Board Resolutions or in one or more indentures supplemental hereto, in each case with such appropriate insertions, omissions, substitutions and other variations as are required or permitted by this Indenture and may have imprinted or otherwise reproduced thereon such legend or legends or endorsements, not inconsistent with the provisions of this Indenture, as may be required to comply with any law, or with any rules of any securities exchange or usage, all as may be determined by the Officers executing such Securities as evidenced by their execution of the Securities.

Section 2.02. *Execution and Authentication*. Two Officers shall execute the Securities for the Company by facsimile or manual signature in the name and on behalf of the Company. If an Officer whose signature is on a Security no longer holds that office at the time the Security is authenticated, the Security shall nevertheless be valid.

The Trustee, at the expense of the Company, may appoint an authenticating agent (the "Authenticating Agent") to authenticate Securities. The Authenticating Agent may authenticate Securities whenever the Trustee may do so. Each reference in this Indenture to authentication by the Trustee includes authentication by such Authenticating Agent.

A Security shall not be valid until the Trustee or Authenticating Agent signs, manually or by facsimile, the certificate of authentication on the Security. The signature shall be conclusive evidence that the Security has been authenticated under this Indenture.

At any time and from time to time after the execution and delivery of this Indenture, the Company may deliver Securities of any series executed by the Company to the Trustee for authentication together with the applicable documents referred to below in this Section, and the Trustee shall thereupon authenticate and deliver such Securities to or upon the written order of the Company. In authenticating any Securities of a series, the Trustee shall be entitled to receive prior to the authentication of any Securities of such series, and (subject to Article 7) shall be fully protected in relying upon, unless and until such documents have been superseded or revoked:

- (a) any Board Resolution and/or executed supplemental indenture referred to in Sections 2.01 and 2.03 by or pursuant to which the forms and terms of the Securities of that series were established;
- (b) an Officers' Certificate setting forth the form or forms and terms of the Securities, stating that the form or forms and terms of the Securities of such series have been, or, in the case of a Periodic Offering, will be when established in accordance with such procedures as shall be referred to therein, established in compliance with this Indenture; and
- (c) an Opinion of Counsel substantially to the effect that the form or forms and terms of the Securities of such series have been, or, in the case of a Periodic Offering, will be when established in accordance with such procedures as shall be referred to therein, established in compliance with this Indenture and that the supplemental indenture, to the extent applicable, and Securities have been duly authorized and, if executed and authenticated in accordance with the provisions of the Indenture and delivered to and duly paid for by the purchasers thereof on the date of such opinion, would be entitled to the benefits of the Indenture and would be valid and binding obligations of the Company, enforceable against the Company in accordance with their respective terms, subject to bankruptcy, insolvency, reorganization, receivership, moratorium and other similar laws affecting creditors' rights generally, general principles of equity, and covering such other matters as shall be specified therein and as shall be reasonably requested by the Trustee.

The Trustee shall not be required to authenticate such Securities if the issue of such Securities pursuant to this Indenture will affect the Trustee's own rights, duties or immunities under the Securities and this Indenture or otherwise in a manner which is not reasonably acceptable to the Trustee.

Notwithstanding the provisions of Sections 2.01 and 2.02, if, in connection with a Periodic Offering, all Securities of a series are not to be originally issued at one time, it shall not be necessary to deliver the Board Resolution otherwise required pursuant to Section 2.01 or the written order, Officers' Certificate and Opinion of Counsel otherwise required pursuant to Section 2.02 at or prior to the authentication of each Security of such series

if such documents are delivered at or prior to the authentication upon original issuance of the first Security of such series to be issued.

With respect to Securities of a series offered in a Periodic Offering, the Trustee may rely, as to the authorization by the Company of any of such Securities, the forms and terms thereof and the legality, validity, binding effect and enforceability thereof, upon the Opinion of Counsel and the other documents delivered pursuant to Sections 2.01 and 2.02, as applicable, in connection with the first authentication of Securities of such series.

If the Company shall establish pursuant to Section 2.03 that the Securities of a series or a portion thereof are to be issued in the form of one or more Registered Global Securities, then the Company shall execute and the Trustee shall authenticate and deliver one or more Registered Global Securities that (i) shall represent and shall be denominated in an amount equal to the aggregate Principal amount of all of the Securities of such series issued in such form and not yet cancelled, (ii) shall be registered in the name of the Depositary for such Registered Global Security or Securities or the nominee of such Depositary, (iii) shall be delivered by the Trustee to such Depositary or its custodian or pursuant to such Depositary's instructions and (iv) shall (unless provided otherwise in the form of such Security) bear a legend substantially to the following effect: "Unless and until it is exchanged in whole or in part for Securities in definitive registered form, this Security may not be transferred except as a whole by the Depositary to the nominee of the Depositary or by a nominee of the Depositary to the Depositary or another nominee of the Depositary or any such nominee to a successor Depositary or a nominee of such successor Depositary."

Section 2.03. *Amount Unlimited; Issuable in Series*. The aggregate Principal amount of Securities that may be authenticated and delivered under this Indenture is unlimited.

The Securities may be issued in one or more series and each such series shall rank equally and pari passu with the Securities of each other series, but all Securities hereunder shall be subordinate and junior in right of payment, to the extent and manner set forth in Article 11, to all Senior Indebtedness. There shall be established in or pursuant to a Board Resolution or one or more indentures supplemental hereto, prior to the initial issuance of Securities of any series, subject to the last sentence of this Section 2.03,

- (a) the designation of the Securities of the series, which shall distinguish the Securities of the series from the Securities of all other series;
- (b) any limit upon the aggregate Principal amount of the Securities of the series that may be authenticated and delivered under this Indenture and any limitation on the ability of the Company to increase such aggregate Principal amount after the initial issuance of the Securities of that series (except for Securities authenticated and delivered upon registration of transfer of, or in exchange for, or in lieu of, or upon redemption of, other Securities of the series pursuant hereto);
 - (c) the date or dates on which the Principal of the Securities of the series is payable (which date or dates may be fixed or extendible);
- (d) the rate or rates (which may be fixed or variable) per annum at which the Securities of the series shall bear interest, if any, the date or dates from which such interest shall accrue, on which such interest shall be payable and on which a record shall be taken for the determination of Holders to whom interest is payable and/or the method by which such rate or rates or date or dates shall be determined;
- (e) if other than as provided in Section 4.02, the place or places where the Principal of and any interest on Securities of the series shall be payable, any Securities of the series may be surrendered for exchange, and notices and demands to or upon the Company in respect of the Securities of the series and this Indenture may be served;
- (f) the right, if any, of the Company to redeem Securities of the series, in whole or in part, at its option and the period or periods within which, the price or prices at which and any terms and conditions upon which Securities of the series may be so redeemed, pursuant to any sinking fund or otherwise;
- (g) the obligation, if any, of the Company to redeem, purchase or repay Securities of the series pursuant to any mandatory redemption, sinking fund or analogous provisions or at the option of a Holder thereof and the price or prices at which and the period or periods within which and any of the terms and conditions upon which Securities of the series shall be redeemed, purchased or repaid, in whole or in part, pursuant to such obligation;

- (h) if other than denominations of \$2,000 and any higher integral multiple of \$1,000, the denominations in which Securities of the series shall be issuable;
- (i) if other than the Principal amount thereof, the portion of the Principal amount of Securities of the series which shall be payable upon declaration of acceleration of the maturity thereof;
- (j) if other than the coin or currency in which the Securities of the series are denominated, the coin or currency in which payment of the Principal of or interest on the Securities of the series shall be payable or if the amount of payments of principal of and/or interest on the Securities of the series may be determined with reference to an index based on a coin or currency other than that in which the Securities of the series are denominated, the manner in which such amounts shall be determined;
- (k) if other than the currency of the United States of America, the currency or currencies, including composite currencies, in which payment of the Principal of and interest on the Securities of the series shall be payable, and the manner in which any such currencies shall be valued against other currencies in which any other Securities shall be payable;
 - (1) whether the Securities of the series or any portion thereof will be issuable as Registered Global Securities;
 - (m) whether the Securities of the series may be exchangeable for and/or convertible into the common stock of the Company or any other security;
- (n) whether and under what circumstances the Company will pay additional amounts on the Securities of the series held by a person who is not a U.S. person in respect of any tax, assessment or governmental charge withheld or deducted and, if so, whether the Company will have the option to redeem such Securities rather than pay such additional amounts;
- (o) if the Securities of the series are to be issuable in definitive form (whether upon original issue or upon exchange of a temporary Security of such series) only upon receipt of certain certificates or other documents or satisfaction of other conditions, the form and terms of such certificates, documents or conditions;
- (p) any trustees, depositaries, authenticating or paying agents, transfer agents or the registrar or any other agents with respect to the Securities of the series:
- (q) provisions, if any, for the defeasance of the Securities of the series (including provisions permitting defeasance of less than all Securities of the series), which provisions may be in addition to, in substitution for, or in modification of (or any combination of the foregoing) the provisions of Article 8;
- (r) if the Securities of the series are issuable in whole or in part as one or more Registered Global Securities, the identity of the Depositary or common Depositary for such Registered Global Security or Securities;
 - (s) any other or alternative Events of Default or covenants with respect to the Securities of the series; and
 - (t) any other terms of the Securities of the series.

All Securities of any one series shall be substantially identical, except as to date and denomination, except in the case of any Periodic Offering and except as may otherwise be provided by or pursuant to the Board Resolution referred to above or as set forth in any such indenture supplemental hereto. All Securities of any one series need not be issued at the same time and may be issued from time to time, consistent with the terms of this Indenture, if so provided by or pursuant to such Board Resolution or in any such indenture supplemental hereto and any forms and terms of Securities to be issued from time to time may be completed and established from time to time prior to the issuance thereof by procedures described in such Board Resolution or supplemental indenture.

Unless otherwise expressly provided with respect to a series of Securities, the aggregate principal amount of a series of Securities may be increased and additional Securities of such series may be issued up to the maximum aggregate principal amount authorized with respect to such series as increased.

Section 2.04. *Denomination and Date of Securities; Payments of Interest*. The Securities of each series shall be issuable in denominations established as contemplated by Section 2.03 or, if not so established with respect to

Securities of any series, in denominations of \$2,000 and any higher integral multiple of \$1,000. The Securities of each series shall be numbered, lettered or otherwise distinguished in such manner or in accordance with such plan as the Officers of the Company executing the same may determine, as evidenced by their execution thereof.

Unless otherwise specified with respect to a series of Securities, each Security shall be dated the date of its authentication. The Securities of each series shall bear interest, if any, from the date, and such interest shall be payable on the dates, established as contemplated by Section 2.03.

The person in whose name any Security of any series is registered at the close of business on any record date applicable to a particular series with respect to any interest payment date for such series shall be entitled to receive the interest, if any, payable on such interest payment date notwithstanding any transfer or exchange of such Security subsequent to the record date and prior to such interest payment date, except if and to the extent the Company shall default in the payment of the interest due on such interest payment date for such series, in which case the provisions of Section 2.13 shall apply. The term "**record date**" as used with respect to any interest payment date (except a date for payment of defaulted interest) for the Securities of any series shall mean the date specified as such in the terms of the Securities of such series established as contemplated by Section 2.03, or, if no such date is so established, the fifteenth day next preceding such interest payment date, whether or not such record date is a Business Day.

Section 2.05. *Registrar and Paying Agent; Agents Generally*. The Company shall maintain an office or agency where Securities may be presented for registration, registration of transfer or for exchange (the "**Registrar**") and an office or agency where Securities may be presented for payment (the "**Paying Agent**"), which shall be in the United States of America. The Company shall cause the Registrar to keep a register of the Securities and of their registration, transfer and exchange (the "**Security Register**"). The Company may have one or more additional Paying Agents or transfer agents with respect to any series.

The Company shall enter into an appropriate agency agreement with any Agent not a party to this Indenture. The agreement shall implement the provisions of this Indenture and the Trust Indenture Act that relate to such Agent. The Company shall give prompt written notice to the Trustee of the name and address of any Agent and any change in the name or address of an Agent. If the Company fails to maintain a Registrar or Paying Agent, the Trustee shall act as such. The Company may remove any Agent upon written notice to such Agent and the Trustee; provided that no such removal shall become effective until (i) the acceptance of an appointment by a successor Agent to such Agent as evidenced by an appropriate agency agreement entered into by the Company and such successor Agent and delivered to the Trustee or (ii) notification to the Trustee that the Trustee shall serve as such Agent until the appointment of a successor Agent in accordance with clause (i) of this proviso. The Company or any Affiliate of the Company may act as Paying Agent or Registrar; provided that neither the Company nor an Affiliate of the Company shall act as Paying Agent in connection with the defeasance of the Securities or the discharge of this Indenture under Article 8.

The Company initially appoints the Trustee as Registrar, Paying Agent and Authenticating Agent. If, at any time, the Trustee is not the Registrar, the Registrar shall make available to the Trustee ten days prior to each interest payment date and at such other times as the Trustee may reasonably request the names and addresses of the Holders as they appear in the Security Register.

Section 2.06. Paying Agent to Hold Money in Trust. Not later than 10:00 a.m. New York City time on each due date of any Principal or interest on any Securities, the Company shall deposit with the Paying Agent money in immediately available funds sufficient to pay such Principal or interest. The Company shall require each Paying Agent other than the Trustee to agree in writing that such Paying Agent shall hold in trust for the benefit of the Holders of such Securities or the Trustee all money held by the Paying Agent for the payment of Principal of and interest on such Securities and shall promptly notify the Trustee of any default by the Company in making any such payment. The Company at any time may require a Paying Agent to pay all money held by it to the Trustee and account for any funds disbursed, and the Trustee may at any time during the continuance of any payment default, upon written request to a Paying Agent, require such Paying Agent to pay all money held by it to the Trustee and to account for any funds disbursed. Upon doing so, the Paying Agent shall have no further liability for the money so paid over to the Trustee. If the Company or any affiliate of the Company acts as Paying Agent, it will, on or before each due date of any Principal of or interest on any Securities, segregate and hold in a separate trust fund for the benefit of the Holders thereof a sum of money sufficient to pay such Principal or interest so becoming due until such sum of money shall be paid to such Holders or otherwise disposed of as provided in this Indenture, and will promptly notify the Trustee in writing of its action or failure to act as required by this Section.

Section 2.07. *Transfer and Exchange*. At the option of the Holder thereof, Securities of any series (other than a Registered Global Security, except as set forth below) may be exchanged for a Security or Securities of such series and tenor having authorized denominations and an equal aggregate Principal amount, upon surrender of such Securities to be exchanged at the agency of the Company that shall be maintained for such purpose in accordance with Section 2.05 and upon payment, if the Company shall so require, of the charges hereinafter provided. Whenever any Securities are so surrendered for exchange, the Company shall execute, and the Trustee shall authenticate and deliver, the Securities which the Holder making the exchange is entitled to receive. Upon surrender for registration of transfer of any Security of a series at the agency of the Company that shall be maintained for that purpose in accordance with Section 2.05 and upon payment, if the Company shall so require, of the charges hereinafter provided, the Company shall execute, and the Trustee shall authenticate and deliver, in the name of the designated transferee or transferees, one or more new Securities of the same series, of any authorized denominations and of like tenor and aggregate Principal amount.

All Securities presented for registration of transfer, exchange, redemption or payment shall be duly endorsed by, or be accompanied by a written instrument or instruments of transfer in form satisfactory to the Company and the Trustee duly executed by, the holder or his attorney duly authorized in writing.

The Company may require payment of a sum sufficient to cover any tax or other governmental charge that may be imposed in connection with any exchange or registration of transfer of Securities. No service charge shall be made for any such transaction.

Notwithstanding any other provision of this Section 2.07, unless and until it is exchanged in whole or in part for Securities in definitive registered form, a Registered Global Security representing all or a portion of the Securities of a series may not be transferred except as a whole by the Depositary for such series to a nominee of such Depositary or by a nominee of such Depositary or another nominee of such Depositary or by such Depositary or any such nominee to a successor Depositary for such series or a nominee of such successor Depositary.

If at any time the Depositary for any Registered Global Securities of any series notifies the Company that it is unwilling or unable to continue as Depositary for such Registered Global Securities or if at any time the Depositary for such Registered Global Securities shall no longer be eligible under applicable law, the Company shall appoint a successor Depositary eligible under applicable law with respect to such Registered Global Securities. If a successor Depositary eligible under applicable law for such Registered Global Securities is not appointed by the Company within 90 days after the Company receives such notice or becomes aware of such ineligibility, the Company will execute, and the Trustee, upon receipt of the Company's order for the authentication and delivery of definitive Securities of such series and tenor, will authenticate and deliver certificated Securities of such series and tenor, in any authorized denominations, in an aggregate Principal amount equal to the Principal amount of such Registered Global Securities, in exchange for such Registered Global Securities.

The Company may at any time and in its sole discretion and subject to the procedures of the Depositary determine that any Registered Global Securities of any series shall no longer be maintained in global form. In such event the Company will execute, and the Trustee, upon receipt of the Company's order for the authentication and delivery of definitive Securities of such series and tenor, will authenticate and deliver, certificated Securities of such series and tenor in any authorized denominations, in an aggregate Principal amount equal to the Principal amount of such Registered Global Securities, in exchange for such Registered Global Securities.

Any time the Securities of any series are not in the form of Registered Global Securities pursuant to the preceding two paragraphs, the Company agrees to supply the Trustee with a reasonable supply of certificated Securities without the legend required by Section 2.02 and the Trustee agrees to hold such Securities in safekeeping until authenticated and delivered pursuant to the terms of this Indenture.

If established by the Company pursuant to Section 2.03 with respect to any Registered Global Security, the Depositary for such Registered Global Security may surrender such Registered Global Security in exchange in whole or in part for Securities of the same series and tenor in definitive registered form on such terms as are acceptable to the Company and such Depositary. Thereupon, the Company shall execute, and the Trustee shall authenticate and deliver, without service charge,

- (a) to the Person specified by such Depositary new certificated Securities of the same series and tenor, of any authorized denominations as requested by such Person, in an aggregate Principal amount equal to and in exchange for such Person's beneficial interest in the Registered Global Security; and
- (b) to such Depositary a new Registered Global Security in a denomination equal to the difference, if any, between the Principal amount of the surrendered Registered Global Security and the aggregate Principal amount of certificated Securities authenticated and delivered pursuant to clause (a) above.

Certificated Securities issued in exchange for a Registered Global Security pursuant to this Section 2.07 shall be registered in such names and in such authorized denominations as the Depositary for such Registered Global Security, pursuant to instructions from its direct or indirect participants or otherwise, shall instruct the Trustee or an agent of the Company or the Trustee. The Trustee or such agent shall deliver such Securities to or as directed by the Persons in whose names such Securities are so registered.

All Securities issued upon any transfer or exchange of Securities shall be valid obligations of the Company, evidencing the same debt, and entitled to the same benefits under this Indenture, as the Securities surrendered upon such transfer or exchange.

The Registrar shall not be required (i) to issue, authenticate, register the transfer of or exchange Securities of any series for a period of 15 days before a selection of such Securities to be redeemed or (ii) to register the transfer of or exchange any Security selected for redemption in whole or in part.

Section 2.08. *Replacement Securities*. If any mutilated Security is surrendered to the Trustee, the Company shall execute and the Trustee shall authenticate and deliver, in exchange for such mutilated Security, a new Security of the same series and of like tenor and Principal amount and bearing a number not contemporaneously outstanding.

If there shall be delivered to the Company and the Trustee (i) evidence to their satisfaction of the destruction, loss or theft of any Security and (ii) such security or indemnity as may be required by them to save each of them and any agent of any of them harmless, then, in the absence of notice to the Company or the Trustee that such Security has been acquired by a bona fide purchaser, the Company shall execute and the Trustee shall authenticate and deliver, in lieu of any such destroyed, lost or stolen Security, a new Security of the same series and of like tenor and Principal amount and bearing a number not contemporaneously outstanding.

In case any such mutilated, destroyed, lost or stolen Security has become or is about to become due and payable, the Company in its discretion may, instead of issuing a new Security, pay such Security (without surrender thereof except in the case of a mutilated Security) if the applicant for such payment shall furnish to the Company and the Trustee such security or indemnity as may be required by them to save each of them and any agent of any of them harmless, and in the case of destruction, loss or theft, evidence satisfactory to the Company and the Trustee and any agent of them of the destruction, loss or theft of such Security and the ownership thereof.

Upon the issuance of any new Security under this Section, the Company may require payment of a sum sufficient to cover any tax or other governmental charge that may be imposed in relation thereto and any other expenses (including the fees and expenses of the Trustee) connected therewith.

Every new Security of any series issued pursuant to this Section in lieu of any destroyed, lost or stolen Security or in exchange for any mutilated Security shall constitute an original additional contractual obligation of the Company, whether or not the mutilated, destroyed, lost or stolen Security shall be at any time enforceable by anyone, and any such new Security shall be entitled to all the benefits of this Indenture equally and proportionately with any and all other Securities of that series duly issued hereunder.

The provisions of this Section are exclusive and shall preclude (to the extent lawful) any other rights and remedies with respect to the replacement or payment of mutilated, destroyed, lost or stolen Securities.

Section 2.09. *Outstanding Securities*. Securities outstanding at any time are all Securities that have been authenticated by the Trustee except for those cancelled by it, those delivered to it for cancellation, those described in this Section as not outstanding and those that have been defeased pursuant to Section 8.05. If a Security is replaced pursuant to Section 2.08, it ceases to be outstanding unless and until the Trustee and the Company receive proof satisfactory to them that the replaced Security is held by a holder in due course.

If the Paying Agent (other than the Company or an affiliate of the Company) holds on the maturity date or any redemption date or date for repurchase of the Securities money sufficient to pay Securities payable or to be redeemed or repurchased on that date, then on and after that date such Securities cease to be outstanding and interest on them shall cease to accrue.

A Security does not cease to be outstanding because the Company or one of its affiliates holds such Security, *provided*, *however*, that, in determining whether the Holders of the requisite Principal amount of the outstanding Securities have given any request, demand, authorization, direction, notice, consent or waiver hereunder, Securities owned by the Company or any affiliate of the Company shall be disregarded and deemed not to be outstanding, except that, in determining whether the Trustee shall be protected in relying upon any such request, demand, authorization, direction, notice, consent or waiver, only Securities as to which a Responsible Officer of the Trustee has received written notice to be so owned shall be so disregarded. Any Securities so owned which are pledged by the Company, or by any affiliate of the Company, as security for loans or other obligations, otherwise than to another such affiliate of the Company, shall be deemed to be outstanding, if the pledgee is entitled pursuant to the terms of its pledge agreement and is free to exercise in its or his discretion the right to vote such securities, uncontrolled by the Company or by any such affiliate.

Section 2.10. *Temporary Securities*. Until definitive Securities of any series are ready for delivery, the Company may prepare and the Trustee shall authenticate temporary Securities of such series. Temporary Securities of any series shall be substantially in the form of definitive Securities of such series but may have insertions, substitutions, omissions and other variations determined to be appropriate by the Officers executing the temporary Securities, as evidenced by their execution of such temporary Securities. If temporary Securities of any series are issued, the Company will cause definitive Securities of such series to be prepared without unreasonable delay. After the preparation of definitive Securities of any series, the temporary Securities of such series shall be exchangeable for definitive Securities of such series and tenor upon surrender of such temporary Securities at the office or agency of the Company designated for such purpose pursuant to Section 4.02, without charge to the Holder. Upon surrender for cancellation of any one or more temporary Securities of any series the Company shall execute and the Trustee shall authenticate and deliver in exchange therefor a like Principal amount of definitive Securities of such series and tenor and authorized denominations. Until so exchanged, the temporary Securities of any series shall be entitled to the same benefits under this Indenture as definitive Securities of such series.

Section 2.11. Cancellation. The Company at any time may deliver to the Trustee for cancellation any Securities previously authenticated and delivered hereunder which the Company may have acquired in any manner whatsoever, and may deliver to the Trustee for cancellation any Securities previously authenticated hereunder which the Company has not issued and sold. The Registrar, any transfer agent and the Paying Agent shall forward to the Trustee any Securities surrendered to them for transfer, exchange or payment. The Trustee shall cancel and dispose of in accordance with its customary procedures all Securities surrendered for transfer, exchange, payment or cancellation and shall deliver a certificate of disposition to the Company. The Company may not issue new Securities to replace Securities it has paid in full or delivered to the Trustee for cancellation.

Section 2.12. *CUSIP Numbers*. The Company in issuing the Securities may use "CUSIP," "ISIN" and/or "CINS" numbers (if then generally in use), and the Trustee shall use CUSIP numbers, ISIN numbers or CINS numbers, as the case may be, in notices of redemption or exchange as a convenience to Holders and no representation shall be made as to the correctness of such numbers either as printed on the Securities or as contained in any notice of redemption or exchange.

Section 2.13. *Defaulted Interest*. If the Company defaults in a payment of interest on the Securities, it shall pay, or shall deposit with the Paying Agent money in immediately available funds sufficient to pay, the defaulted interest plus (to the extent lawful) any interest payable on the defaulted interest (as may be specified in the terms thereof, established pursuant to Section 2.03) to the Persons who are Holders on a subsequent special record date, which shall mean the 15th day next preceding the date fixed by the Company for the payment of defaulted interest, whether or not such day is a Business Day. At least 15 days before such special record date, the Company shall mail to each Holder of such Securities and to the Trustee a notice that states the special record date, the payment date and the amount of defaulted interest to be paid.

Section 2.14. *Series May Include Tranches*. A series of Securities may include one or more tranches (each a "**tranche**") of Securities, including Securities issued in a Periodic Offering. The Securities of different tranches may have one or more different terms, including authentication dates and public offering prices, but all the Securities

within each such tranche shall have identical terms, including authentication date and public offering price. Notwithstanding any other provision of this Indenture, with respect to Sections 2.02 (other than the fourth, sixth and seventh paragraphs thereof) through 2.04, 2.07, 2.08, 2.10, 3.01 through 3.05, 4.02, 6.01 through 6.14, 8.01 through 8.07, 9.02 and 10.07, if any series of Securities includes more than one tranche, all provisions of such sections applicable to any series of Securities shall be deemed equally applicable to each tranche of any series of Securities in the same manner as though originally designated a series unless otherwise provided with respect to such series or tranche pursuant to Section 2.03. In particular, and without limiting the scope of the next preceding sentence, any of the provisions of such sections which provide for or permit action to be taken with respect to a series of Securities shall also be deemed to provide for and permit such action to be taken instead only with respect to Securities of one or more tranches within that series (and such provisions shall be deemed satisfied thereby), even if no comparable action is taken with respect to Securities in the remaining tranches of that series.

ARTICLE 3

REDEMPTION

Section 3.01. *Applicability of Article*. The provisions of this Article shall be applicable to the Securities of any series that are redeemable before their maturity or to any sinking fund for the retirement of Securities of a series except as otherwise specified as contemplated by Section 2.03 for Securities of such series

Section 3.02. *Notice of Redemption; Partial Redemptions*. Notice of redemption to the Holders of Securities of any series to be redeemed as a whole or in part at the option of the Company shall be given by mailing notice of such redemption by first class mail, postage prepaid, at least 30 days and not more than 60 days prior to the date fixed for redemption to such Holders of Securities of such series at their last addresses as they shall appear upon the Security Register. Any notice which is mailed in the manner herein provided shall be conclusively presumed to have been duly given, whether or not the Holder receives the notice. Failure to give notice by mail, or any defect in the notice to the Holder of any Security of a series designated for redemption as a whole or in part, shall not affect the validity of the proceedings for the redemption of any other Security of such series.

The notice of redemption to each such Holder shall specify the Principal amount of each Security of such series held by such Holder to be redeemed, the CUSIP numbers of the Securities to be redeemed, the date fixed for redemption, the redemption price, or if not then ascertainable, the manner of calculation thereof, the place or places of payment, that payment will be made upon presentation and surrender of such Securities, that such redemption is pursuant to the mandatory or optional sinking fund, or both, if such be the case, that interest accrued to the date fixed for redemption will be paid as specified in such notice and that on and after said date interest thereon or on the portions thereof to be redeemed will cease to accrue. In case any Security of a series is to be redeemed in part only, the notice of redemption shall state the portion of the Principal amount thereof to be redeemed and shall state that on and after the date fixed for redemption, upon surrender of such Security, a new Security or Securities of such series and tenor in Principal amount equal to the unredeemed portion thereof will be issued.

The notice of redemption of Securities of any series to be redeemed at the option of the Company shall be given by the Company or, at the Company's request, by the Trustee in the name and at the expense of the Company.

On or before 10:00 a.m. New York City time on the redemption date specified in the notice of redemption given as provided in this Section, the Company will deposit with the Trustee or with one or more Paying Agents (or, if the Company is acting as its own Paying Agent, set aside, segregate and hold in trust as provided in Section 2.06) an amount of money sufficient to redeem on the redemption date all the Securities of such series so called for redemption at the appropriate redemption price, together with accrued interest to the date fixed for redemption. If all of the outstanding Securities of a series are to be redeemed, the Company will deliver to the Trustee at least 10 days prior to the last date on which notice of redemption may be given to Holders pursuant to the first paragraph of this Section 3.02 (or such shorter period as shall be acceptable to the Trustee) an Officers' Certificate stating that all such Securities are to be redeemed. If less than all the outstanding Securities of a series are to be redeemed, the Company will deliver to the Trustee at least 15 days prior to the last date on which notice of redemption may be given to Holders pursuant to the first paragraph of this Section 3.02 (or such shorter period as shall be acceptable to the Trustee) an Officers' Certificate stating the aggregate Principal amount of such Securities to be redeemed. In the case of any redemption of Securities (a) prior to the expiration of any restriction on such redemption provided in the terms of such Securities or elsewhere in this Indenture, the Company shall

deliver to the Trustee, prior to the giving of any notice of redemption to Holders pursuant to this Section, an Officers' Certificate evidencing compliance with such restriction or condition.

If less than all the Securities of a series are to be redeemed, the Trustee shall select, pro rata, by lot or in such manner as it shall deem appropriate and fair, Securities of such series to be redeemed in whole or in part. Securities may be redeemed in part in Principal amounts equal to authorized denominations for Securities of such series. The Trustee shall promptly notify the Company in writing of the Securities of such series selected for redemption and, in the case of any Securities of such series selected for partial redemption, the Principal amount thereof to be redeemed. For all purposes of this Indenture, unless the context otherwise requires, all provisions relating to the redemption of Securities shall relate, in the case of any Security redeemed or to be redeemed only in part, to the portion of the Principal amount of such Security which has been or is to be redeemed.

Section 3.03. Payment of Securities Called for Redemption. If notice of redemption has been given as above provided, the Securities or portions of Securities specified in such notice shall become due and payable on the date and at the place stated in such notice at the applicable redemption price, together with interest accrued to the date fixed for redemption, and on and after such date (unless the Company shall default in the payment of such Securities at the redemption price, together with interest accrued to such date) interest on the Securities or portions of Securities so called for redemption shall cease to accrue, and, except as provided in Sections 7.12 and 8.02, such Securities shall cease from and after the date fixed for redemption to be entitled to any benefit under this Indenture, and the Holders thereof shall have no right in respect of such Securities except the right to receive the redemption price thereof and unpaid interest to the date fixed for redemption. On presentation and surrender of such Securities at a place of payment specified in said notice, said Securities or the specified portions thereof shall be paid and redeemed by the Company at the applicable redemption price, together with interest accrued thereon to the date fixed for redemption; provided that payment of interest becoming due on or prior to the date fixed for redemption shall be payable to the Holders registered as such on the relevant record date subject to the terms and provisions of Sections 2.04 and 2.13 hereof.

If any Security called for redemption shall not be so paid upon surrender thereof for redemption, the principal shall, until paid or duly provided for, bear interest from the date fixed for redemption at the rate of interest or Yield to Maturity (in the case of an Original Issue Discount Security) borne by such Security.

Upon presentation of any Security of any series redeemed in part only, the Company shall execute and the Trustee shall authenticate and deliver to or on the order of the Holder thereof, at the expense of the Company, a new Security or Securities of such series and tenor, of authorized denominations, in Principal amount equal to the unredeemed portion of the Security so presented.

Section 3.04. Exclusion of Certain Securities from Eligibility for Selection for Redemption. Unless otherwise provided with respect to any series of Securities, Securities shall be excluded from eligibility for selection for redemption if they are identified by registration and certificate number in a written statement signed by an authorized Officer of the Company and delivered to the Trustee at least 40 days prior to the last date on which notice of redemption may be given as being owned of record and beneficially by, and not pledged or hypothecated by, either (a) the Company or (b) an entity specifically identified in such written statement as directly or indirectly controlling or controlled by or under direct or indirect common control with the Company.

Section 3.05. *Mandatory and Optional Sinking Funds*. The minimum amount of any sinking fund payment provided for by the terms of Securities of any series is herein referred to as a "**mandatory sinking fund payment**", and any payment in excess of such minimum amount provided for by the terms of the Securities of any series is herein referred to as an "**optional sinking fund payment**." The date on which a sinking fund payment is to be made is herein referred to as the "**sinking fund payment date**."

In lieu of making all or any part of any mandatory sinking fund payment with respect to any series of Securities in cash, the Company may at its option (a) deliver to the Trustee Securities of such series theretofore purchased or otherwise acquired (except through a mandatory sinking fund payment) by the Company or receive credit for Securities of such series (not previously so credited) theretofore purchased or otherwise acquired (except as aforesaid) by the Company and delivered to the Trustee for cancellation pursuant to Section 2.11, (b) receive credit for optional sinking fund payments (not previously so credited) made pursuant to this Section, or (c) receive credit for Securities of such series (not previously so credited) redeemed by the Company at the option of the Company pursuant to the terms of such Securities or through any optional sinking fund payment. Securities so delivered or

credited shall be received or credited by the Trustee at the sinking fund redemption price specified in such Securities.

On or before the sixtieth day next preceding each sinking fund payment date for any series, or such shorter period as shall be acceptable to the Trustee, the Company will deliver to the Trustee an Officers' Certificate (a) specifying the portion of the mandatory sinking fund payment to be satisfied by payment of cash and the portion to be satisfied by credit of specified Securities of such series and the basis for such credit, (b) stating that none of the specified Securities of such series has theretofore been so credited, (c) stating that no defaults in the payment of interest or Events of Default with respect to such series have occurred (which have not been waived or cured) and are continuing and (d) stating whether or not the Company intends to exercise its right to make an optional sinking fund payment with respect to such series and, if so, specifying the amount of such optional sinking fund payment which the Company intends to pay on or before the next succeeding sinking fund payment date. Any Securities of such series to be credited and required to be delivered to the Trustee in order for the Company to be entitled to credit therefor as aforesaid which have not theretofore been delivered to the Trustee shall be delivered for cancellation pursuant to Section 2.11 to the Trustee with such Officers' Certificate (or reasonably promptly thereafter if acceptable to the Trustee). Such Officers' Certificate shall be irrevocable and upon its receipt by the Trustee the Company shall become unconditionally obligated to make all the cash payments or delivery of Securities therein referred to, if any, on or before the next succeeding sinking fund payment date. Failure of the Company, on or before any such sixtieth day, to deliver such Officer's Certificate and Securities specified in this paragraph, if any, shall not constitute a default but shall constitute, on and as of such date, the irrevocable election of the Company (i) that the mandatory sinking fund payment for such series due on the next succeeding sinking

If the sinking fund payment or payments (mandatory or optional or both) to be made in cash on the next succeeding sinking fund payment date plus any unused balance of any preceding sinking fund payments made in cash shall exceed \$50,000 (or a lesser sum if the Company shall so request with respect to the Securities of any series), such cash shall be applied on the next succeeding sinking fund payment date to the redemption of Securities of such series at the sinking fund redemption price thereof together with accrued interest thereon to the date fixed for redemption. If such amount shall be \$50,000 (or such lesser sum) or less and the Company makes no such request then it shall be carried over until a sum in excess of \$50,000 (or such lesser sum) is available. The Trustee shall select, in the manner provided in Section 3.02, for redemption on such sinking fund payment date a sufficient Principal amount of Securities of such series to absorb said cash, as nearly as may be, and shall (if requested in writing by the Company) inform the Company of the serial numbers of the Securities of such series (or portions thereof) so selected. Securities shall be excluded from eligibility for redemption under this Section if they are identified by registration and certificate number in an Officers' Certificate delivered to the Trustee at least 60 days prior to the sinking fund payment date as being owned of record and beneficially by, and not pledged or hypothecated by either (a) the Company or (b) an entity specifically identified in such Officers' Certificate as directly or indirectly controlling or controlled by or under direct or indirect common control with the Company. The Trustee, in the name and at the expense of the Company (or the Company, if it shall so request the Trustee in writing) shall cause notice of redemption of the Securities of such series to be given in substantially the manner provided in Section 3.02 (and with the effect provided in Section 3.03) for the redemption of Securities of such series in part at the option of the Company. The amount of any sinking fund payments not so applied or allocated to the redemption of Securities of such series shall be added to the next cash sinking fund payment for such series and, together with such payment, shall be applied in accordance with the provisions of this Section. Any and all sinking fund moneys held on the stated maturity date of the Securities of any particular series (or earlier, if such maturity is accelerated), which are not held for the payment or redemption of particular Securities of such series shall be applied, together with other moneys, if necessary, sufficient for the purpose, to the payment of the Principal of, and interest on, the Securities of such series at maturity.

On or before 10:00 a.m. New York City time on each sinking fund payment date, the Company shall pay to the Trustee in cash or shall otherwise provide for the payment of all interest accrued to the date fixed for redemption on Securities to be redeemed on the next following sinking fund payment date.

The Trustee shall not redeem or cause to be redeemed any Securities of a series with sinking fund moneys or mail any notice of redemption of Securities of such series by operation of the sinking fund during the continuance of a Default in payment of interest on such Securities or of any Event of Default except that, where the mailing of notice of redemption of any Securities shall theretofore have been made, the Trustee shall redeem or cause to be

redeemed such Securities, provided that it shall have received from the Company a sum sufficient for such redemption. Except as aforesaid, any moneys in the sinking fund for such series at the time when any such Default or Event of Default shall occur, and any moneys thereafter paid into the sinking fund, shall, during the continuance of such Default or Event of Default, be deemed to have been collected under Article 6 and held for the payment of all such Securities. In case such Event of Default shall have been waived as provided in Section 6.04 or the Default cured on or before the sixtieth day preceding the sinking fund payment date in any year, such moneys shall thereafter be applied on the next succeeding sinking fund payment date in accordance with this Section to the redemption of such Securities.

ARTICLE 4

COVENANTS

Section 4.01. *Payment of Securities*. The Company shall pay the Principal of and interest on the Securities on the dates and in the manner provided in the Securities and this Indenture. The interest on Securities (together with any additional amounts payable pursuant to the terms of such Securities) shall be payable only to the Holders thereof (subject to Section 2.04) and at the option of the Company may be paid by mailing checks for such interest payable to or upon the written order of such Holders at their last addresses as they appear on the Security Register of the Company.

Notwithstanding any provisions of this Indenture and the Securities of any series to the contrary, if the Company and a Holder of any Security so agree, payments of interest on, and any portion of the Principal of, such Holder's Security (other than interest payable at maturity or on any redemption or repayment date or the final payment of Principal on such Security) shall be made by the Paying Agent, upon receipt from the Company of immediately available funds by 11:00 A.M., New York City time (or such other time as may be agreed to between the Company and the Paying Agent), directly to the Holder of such Security (by Federal funds wire transfer or otherwise) if the Holder has delivered written instructions to the Trustee 15 days prior to such payment date requesting that such payment will be so made and designating the bank account to which such payments shall be so made and in the case of payments of Principal, surrenders the same to the Trustee in exchange for a Security or Securities aggregating the same Principal amount as the unredeemed Principal amount of the Securities surrendered. The Trustee shall be entitled to rely on the last instruction delivered by the Holder pursuant to this Section 4.01 unless a new instruction is delivered 15 days prior to a payment date. The Company will indemnify and hold each of the Trustee and any Paying Agent harmless against any loss, liability or expense (including attorneys' fees) resulting from any act or omission to act on the part of the Company or any such Holder in connection with any such agreement or from making any payment in accordance with any such agreement.

The Company shall pay interest on overdue Principal, and interest on overdue installments of interest, to the extent lawful, at the rate per annum specified in the Securities.

Section 4.02. *Maintenance of Office or Agency*. The Company will maintain in the United States of America, an office or agency where Securities may be surrendered for registration of transfer or exchange or for presentation for payment and where notices and demands to or upon the Company in respect of the Securities and this Indenture may be served. The Company hereby initially designates [], as such office or agency of the Company. The Company will give prompt written notice to the Trustee of the location, and any change in the location, of such office or agency. If at any time the Company shall fail to maintain any such required office or agency or shall fail to furnish the Trustee with the address thereof, such presentations, surrenders, notices and demands may be made or served at the address of the Trustee set forth in Section 10.02.

The Company may also from time to time designate one or more other offices or agencies where the Securities of any series may be presented or surrendered for any or all such purposes and may from time to time rescind such designations; provided that no such designation or rescission shall in any manner relieve the Company of its obligation to maintain an office or agency in the United States of America for such purposes. The Company will give prompt written notice to the Trustee of any such designation or rescission and of any change in the location of any such other office or agency.

Section 4.03. *Securityholders' Lists*. The Company will furnish or cause to be furnished to the Trustee a list in such form as the Trustee may reasonably require of the names and addresses of the holders of the Securities pursuant to Section 312 of the Trust Indenture Act (a) semi-annually not more than 15 days after each record date for the payment of semi-annual interest on the Securities, as hereinabove specified, as of such record date, and (b) at such

other times as the Trustee may request in writing, within thirty days after receipt by the Company of any such request as of a date not more than 15 days prior to the time such information is furnished.

Section 4.04. *Certificate to Trustee*. The Company will furnish to the Trustee annually, on or before a date not more than four months after the end of its fiscal year (which, on the date hereof, is a calendar year), a brief certificate (which need not contain the statements required by Section 10.04) from its principal executive, financial or accounting officer as to his or her knowledge of the compliance of the Company with all conditions and covenants under this Indenture (such compliance to be determined without regard to any period of grace or requirement of notice provided under this Indenture) which certificate shall comply with the requirements of the Trust Indenture Act.

Section 4.05. *Reports by the Company*. The Company covenants to file with the Trustee, within 15 days after the Company files the same with the Commission, copies of the annual reports and of the information, documents, and other reports which the Company may be required to file with the Commission pursuant to Section 13 or Section 15(d) of the Exchange Act.

Section 4.06. Additional Amounts. If the Securities of a series provide for the payment of additional amounts, at least 10 days prior to the first interest payment date with respect to that series of Securities and at least 10 days prior to each date of payment of Principal of or interest on the Securities of that series if there has been a change with respect to the matters set forth in the below-mentioned Officers' Certificate, the Company shall furnish to the Trustee and the principal paying agent, if other than the Trustee, an Officers' Certificate instructing the Trustee and such paying agent whether such payment of Principal of or interest on the Securities of that series shall be made to Holders of the Securities of that series without withholding or deduction for or on account of any tax, assessment or other governmental charge described in the Securities of that series. If any such withholding or deduction shall be required, then such Officers' Certificate shall specify by country the amount, if any, required to be withheld or deducted on such payments to such Holders and shall certify the fact that additional amounts will be payable and the amounts so payable to each Holder, and the Company shall pay to the Trustee or such paying agent the additional amounts required to be paid by this Section. The Company covenants to indemnify the Trustee and any paying agent for, and to hold them harmless against, any loss, liability or expense reasonably incurred without negligence or bad faith on their part arising out of or in connection with actions taken or omitted by any of them in reliance on any Officers' Certificate furnished pursuant to this Section.

Whenever in this Indenture there is mentioned, in any context, the payment of the Principal of or interest or any other amounts on, or in respect of, any Security of any series, such mention shall be deemed to include mention of the payment of additional amounts provided by the terms of such series established hereby or pursuant hereto to the extent that, in such context, additional amounts are, were or would be payable in respect thereof pursuant to such terms, and express mention of the payment of additional amounts (if applicable) in any provision hereof shall not be construed as excluding the payment of additional amounts in those provisions hereof where such express mention is not made.

ARTICLE 5

SUCCESSOR CORPORATION

Section 5.01. When Company May Merge, Etc. Unless otherwise provided pursuant to Section 2.03 in connection with the establishment of a series, the Company shall not consolidate or combine with, merge with or into, directly or indirectly, or sell, assign, convey, transfer, lease or otherwise dispose of all or substantially all of its property and assets to any Person or Persons in a single transaction or through a series of transactions unless:

- (a) the Company shall be the continuing Person or, if the Company is not the continuing Person, the resulting, surviving or transferee Person (the "Surviving Entity") is a company organized and existing under the laws of any member state of the European Union or the United States of America or any State or territory thereof;
- (b) the Surviving Entity shall expressly assume all of the Company's obligations under the Securities and this Indenture, and shall, if required by law to effectuate the assumption, execute supplemental indentures which shall be delivered to the Trustee and shall be in form and substance reasonably satisfactory to the Trustee;
 - (c) immediately after giving effect to such transaction or series of transactions on a pro forma basis, no Default has occurred and is continuing; and

(d) the Company or the Surviving Entity shall have delivered to the Trustee an Officers' Certificate and Opinion of Counsel stating that (x) the transaction or series of transactions and such supplemental indenture, if any, complies with this Section 5.01, (y) such supplemental indenture (if any) constitutes the legal, valid and binding obligation of the Company and such Surviving Entity enforceable against such Surviving Entity in accordance with its terms, subject to customary exceptions and (z) all conditions precedent in this Indenture relating to the transaction or series of transactions have been satisfied.

Section 5.02. *Successor Substituted*. Upon any consolidation, combination or merger, or any sale, assignment, conveyance, transfer, lease or other disposition of all or substantially all of the property and assets of the Company in accordance with Section 5.01 of this Indenture, the Surviving Entity shall succeed to, and be substituted for, and may exercise every right and power of, the Company under this Indenture with the same effect as if such Surviving Entity had been named as the Company herein and thereafter the predecessor Person, except in the case of (x) a lease or (y) any sale, assignment, conveyance, transfer, lease or other disposition to one or more Subsidiaries of the Company, shall be discharged from all obligations and covenants under this Indenture and the Securities.

ARTICLE 6

DEFAULT AND REMEDIES

Section 6.01. Events of Default. An "Event of Default" shall occur with respect to the Securities of any series if:

- (a) the Company defaults in the payment of the Principal of any Security of such series when the same becomes due and payable at maturity, upon acceleration, redemption or mandatory repurchase, including as a sinking fund installment, or otherwise;
- (b) the Company defaults in the payment of interest on any Security of such series when the same becomes due and payable, and such default continues for a period of 30 days;
- (c) the Company defaults in the performance of or breaches any other covenant or agreement of the Company in this Indenture with respect to any Security of such series or in the Securities of such series (other than a covenant or agreement in respect of which noncompliance by the Company would otherwise be an Event of Default) and such default or breach continues for a period of 90 consecutive days or more after written notice to the Company by the Trustee or to the Company and the Trustee by the Holders of 25% or more in aggregate Principal amount of the Securities of all series affected thereby specifying such default or breach and requiring it to be remedied and stating that such notice is a "Notice of Default" hereunder;
- (d) a court having jurisdiction in the premises shall enter a decree or order for relief in respect of the Company in an involuntary case under any applicable bankruptcy, insolvency or other similar law now or hereafter in effect, or appointing a receiver, liquidator, assignee, custodian, trustee, sequestrator (or similar official) of the Company or for any substantial part of its property or ordering the winding up or liquidation of its affairs, and such decree or order shall remain unstayed and in effect for a period of 60 consecutive days;
- (e) the Company (i) commences a voluntary case under any applicable bankruptcy, insolvency or other similar law now or hereafter in effect, or consents to the entry of an order for relief in an involuntary case under any such law, (ii) consents to the appointment of or taking possession by a receiver, liquidator, assignee, custodian, trustee, sequestrator or similar official of the Company or for all or substantially all of the property and assets of the Company or (iii) effects any general assignment for the benefit of creditors; or
 - (f) any other Event of Default established pursuant to Section 2.03 with respect to the Securities of such series occurs.

Section 6.02. *Acceleration*. (a) If an Event of Default other than as described in clauses (d) or (e) of Section 6.01 with respect to the Securities of any series then outstanding occurs and is continuing, then, and in each and every such case, except for any series of Securities the Principal of which shall have already become due and payable, either the Trustee or the Holders of not less than 25% in aggregate Principal amount of the Securities of all such series then outstanding hereunder in respect of which an Event of Default has occurred (all such series voting together as a single class) by notice in writing to the Company (and to the Trustee if given by Securityholders), may declare the entire Principal (or, if the Securities of any such series are Original Issue Discount Securities, such

portion of the Principal amount as may be specified in the terms of such series established pursuant to Section 2.03) of all Securities of the affected series, and the interest accrued thereon, if any, to be due and payable immediately, and upon any such declaration the same shall become immediately due and payable.

(b) If an Event of Default described in clause (d) or (e) of Section 6.01 occurs and is continuing, then the Principal amount (or, if any Securities are Original Issue Discount Securities, such portion of the Principal as may be specified in the terms thereof established pursuant to Section 2.03) of all the Securities then outstanding and interest accrued thereon, if any, shall be and become immediately due and payable, without any declaration, notice or other action by any Holder or the Trustee, to the full extent permitted by applicable law.

The foregoing provisions, however, are subject to the condition that if, at any time after the Principal (or, if the Securities are Original Issue Discount Securities, such portion of the Principal as may be specified in the terms thereof established pursuant to Section 2.03) of the Securities of any series (or of all the Securities, as the case may be) shall have been so declared or become due and payable, and before any judgment or decree for the payment of the moneys due shall have been obtained or entered as hereinafter provided, the Company shall pay or shall deposit with the Trustee a sum sufficient to pay all matured installments of interest upon all the Securities of each such series (or of all the Securities, as the case may be) and the Principal of any and all Securities of each such series (or of all the Securities, as the case may be) which shall have become due otherwise than by acceleration (with interest upon such Principal and, to the extent that payment of such interest is enforceable under applicable law, on overdue installments of interest, at the same rate as the rate of interest or Yield to Maturity (in the case of Original Issue Discount Securities) specified in the Securities of each such series to the date of such payment or deposit) and such amount as shall be sufficient to cover all amounts owing the Trustee under Section 7.07, and if any and all Events of Default under the Indenture, other than the non-payment of the Principal of and interest on Securities which shall have become due by acceleration, shall have been cured, waived or otherwise remedied as provided herein, then and in every such case the Holders of a majority in aggregate Principal amount of all the then outstanding Securities of all such series (or with respect to all the Securities, as the case may be) and rescind and annul such declaration and its consequences, but no such waiver or rescission and annulment shall extend to or shall affect any subsequent default or shall impair any right consequent thereon.

For all purposes under this Indenture, if a portion of the Principal of any Original Issue Discount Securities shall have been accelerated and declared or become due and payable pursuant to the provisions hereof, then, from and after such declaration, unless such declaration has been rescinded and annulled, the Principal amount of such Original Issue Discount Securities shall be deemed, for all purposes hereunder, to be such portion of the Principal thereof as shall be due and payable as a result of such acceleration, and payment of such portion of the Principal thereof as shall be due and payable as a result of such acceleration, together with interest, if any, thereon and all other amounts owing thereunder, shall constitute payment in full of such Original Issue Discount Securities.

Section 6.03. *Other Remedies*. If a payment default or an Event of Default with respect to the Securities of any series occurs and is continuing, the Trustee may pursue, in its own name or as trustee of an express trust, any available remedy by proceeding at law or in equity to collect the payment of Principal of and interest on the Securities of such series or to enforce the performance of any provision of the Securities of such series or this Indenture.

The Trustee may maintain a proceeding even if it does not possess any of the Securities or does not produce any of them in the proceeding.

Section 6.04. Waiver of Past Defaults. Subject to Sections 6.02, 6.07 and 9.02, the Holders of at least a majority in Principal amount (or, if the Securities are Original Issue Discount Securities, such portion of the Principal as is then accelerable under Section 6.02) of the outstanding Securities of all series affected (voting as a single class), by notice to the Trustee, may waive an existing Default or Event of Default with respect to the Securities of such series and its consequences, except a Default in the payment of Principal of or interest on any Security as specified in clauses (a) or (b) of Section 6.01 or in respect of a covenant or provision of this Indenture which cannot be modified or amended without the consent of the Holder of each outstanding Security affected. Upon any such waiver, such Default shall cease to exist, and any Event of Default with respect to the Securities of such series arising therefrom shall be deemed to have been cured, for every purpose of this Indenture; but no such waiver shall extend to any subsequent or other Default or Event of Default or impair any right consequent thereto.

Section 6.05. *Control by Majority*. Subject to Sections 7.01 and 7.02(e), the Holders of at least a majority in aggregate Principal amount (or, if any Securities are Original Issue Discount Securities, such portion of the Principal as is then accelerable under Section 6.02) of the outstanding Securities of all series affected (voting as a single class) may direct the time, method and place of conducting any proceeding for any remedy available to the Trustee or exercising any trust or power conferred on the Trustee with respect to the Securities of such series by this Indenture; provided, that the Trustee may refuse to follow any direction that conflicts with law or this Indenture, that may involve the Trustee in personal liability or that the Trustee determines in good faith may be unduly prejudicial to the rights of Holders not joining in the giving of such direction; and provided further, that the Trustee may take any other action it deems proper that is not inconsistent with any directions received from Holders of Securities pursuant to this Section 6.05

Section 6.06. *Limitation on Suits*. No Holder of any Security of any series may institute any proceeding, judicial or otherwise, with respect to this Indenture or the Securities of such series, or for the appointment of a receiver or trustee, or for any other remedy hereunder, unless:

- (a) such Holder has previously given to the Trustee written notice of a continuing Event of Default with respect to the Securities of such series;
- (b) the Holders of at least 25% in aggregate Principal amount of outstanding Securities of all such series affected shall have made written request to the Trustee to institute proceedings in respect of such Event of Default in its own name as Trustee hereunder;
- (c) such Holder or Holders have offered to the Trustee indemnity or security reasonably satisfactory to it against any costs, liabilities or expenses to be incurred in compliance with such request;
 - (d) the Trustee for 60 days after its receipt of such notice, request and offer of indemnity has failed to institute any such proceeding; and
- (e) during such 60-day period, the Holders of a majority in aggregate Principal amount of the outstanding Securities of all such affected series have not given the Trustee a direction that is inconsistent with such written request.

A Holder may not use this Indenture to prejudice the rights of another Holder or to obtain a preference or priority over such other Holder.

Section 6.07. *Rights of Holders to Receive Payment*. Notwithstanding any other provision of this Indenture, the right of any Holder of a Security to receive payment of Principal of or interest, if any, on such Holder's Security on or after the respective due dates expressed on such Security, or to bring suit for the enforcement of any such payment on or after such respective dates, shall not be impaired or affected without the consent of such Holder.

Section 6.08. *Collection Suit by Trustee*. If an Event of Default with respect to the Securities of any series in payment of Principal or interest specified in clause (a) or (b) of Section 6.01 occurs and is continuing, the Trustee may recover judgment in its own name and as trustee of an express trust against the Company for the whole amount (or such portion thereof as specified in the terms established pursuant to Section 2.03 of Original Issue Discount Securities) of Principal of, and accrued interest remaining unpaid on, together with interest on overdue Principal of, and, to the extent that payment of such interest is lawful, interest on overdue installments of interest on, the Securities of such series, in each case at the rate or Yield to Maturity (in the case of Original Issue Discount Securities) specified in such Securities, and such further amount as shall be sufficient to cover all amounts owing the Trustee under Section 7.07.

Section 6.09. *Trustee May File Proofs of Claim*. The Trustee may file such proofs of claim and other papers or documents as may be necessary or advisable in order to have the claims of the Trustee (including any claim for amounts due the Trustee under Section 7.07) and the Holders allowed in any judicial proceedings relative to the Company (or any other obligor on the Securities), its creditors or its property and shall be entitled and empowered to collect and receive any moneys, securities or other property payable or deliverable upon conversion or exchange of the Securities or upon any such claims and to distribute the same, and any custodian, receiver, assignee, trustee, liquidator, sequestrator or other similar official in any such judicial proceeding is hereby authorized by each Holder to make such payments to the Trustee and, in the event that the Trustee shall consent to the making of such payments directly to the Holders, to pay to the Trustee any amount due to it under Section 7.07. Nothing herein

contained shall be deemed to empower the Trustee to authorize or consent to, or accept or adopt on behalf of any Holder, any plan of reorganization, arrangement, adjustment or composition affecting the Securities or the rights of any Holder thereof, or to authorize the Trustee to vote in respect of the claim of any Holder in any such proceeding.

Section 6.10. Application of Proceeds. Any moneys collected by the Trustee pursuant to this Article in respect of the Securities of any series shall be applied in the following order at the date or dates fixed by the Trustee and, in case of the distribution of such moneys on account of Principal or interest, upon presentation of the several Securities in respect of which moneys have been collected and noting thereon the payment, or issuing Securities of such series and tenor in reduced Principal amounts in exchange for the presented Securities of such series and tenor if only partially paid, or upon surrender thereof if fully paid:

FIRST: To the payment of all amounts due the Trustee under Section 7.07 applicable to the Securities of such series in respect of which moneys have been collected;

SECOND: In case the Principal of the Securities of such series in respect of which moneys have been collected shall not have become and be then due and payable, to the payment of interest on the Securities of such series in default in the order of the maturity of the installments of such interest, with interest (to the extent that such interest has been collected by the Trustee) upon the overdue installments of interest at the same rate as the rate of interest or Yield to Maturity (in the case of Original Issue Discount Securities) specified in such Securities, such payments to be made ratably to the persons entitled thereto, without discrimination or preference;

THIRD: In case the Principal of the Securities of such series in respect of which moneys have been collected shall have become and shall be then due and payable, to the payment of the whole amount then owing and unpaid upon all the Securities of such series for Principal and interest, with interest upon the overdue Principal, and (to the extent that such interest has been collected by the Trustee) upon overdue installments of interest at the same rate as the rate of interest or Yield to Maturity (in the case of Original Issue Discount Securities) specified in the Securities of such series; and in case such moneys shall be insufficient to pay in full the whole amount so due and unpaid upon the Securities of such series, then to the payment of such Principal and interest or Yield to Maturity, without preference or priority of Principal over interest or Yield to Maturity, or of interest or Yield to Maturity over Principal, or of any installment of interest over any other installment of interest, or of any Security of such series over any other Security of such series, ratably to the aggregate of such Principal and accrued and unpaid interest or Yield to Maturity; and

FOURTH: To the payment of the remainder, if any, to the Company or any other person lawfully entitled thereto.

Section 6.11. *Restoration of Rights and Remedies*. If the Trustee or any Holder has instituted any proceeding to enforce any right or remedy under this Indenture and such proceeding has been discontinued or abandoned for any reason, or has been determined adversely to the Trustee or to such Holder, then, and in every such case, subject to any determination in such proceeding, the Company, the Trustee and the Holders shall be restored to their former positions hereunder and thereafter all rights and remedies of the Company, Trustee and the Holders shall continue as though no such proceeding had been instituted.

Section 6.12. *Undertaking for Costs*. In any suit for the enforcement of any right or remedy under this Indenture or in any suit against the Trustee for any action taken or omitted by it as Trustee, in either case in respect to the Securities of any series, a court may require any party litigant in such suit (other than the Trustee) to file an undertaking to pay the costs of the suit, and the court may assess reasonable costs, including reasonable attorneys' fees, against any party litigant (other than the Trustee) in the suit having due regard to the merits and good faith of the claims or defenses made by the party litigant. This Section 6.12 does not apply to a suit by a Holder pursuant to Section 6.07, a suit instituted by the Trustee or a suit by Holders of more than 10% in Principal amount of the outstanding Securities of such series.

Section 6.13. *Rights and Remedies Cumulative*. Except as otherwise provided with respect to the replacement or payment of mutilated, destroyed, lost or wrongfully taken Securities in Section 2.08, no right or remedy herein conferred upon or reserved to the Trustee or to the Holders is intended to be exclusive of any other right or remedy, and every right and remedy shall, to the extent permitted by law, be cumulative and in addition to every other right and remedy given hereunder or now or hereafter existing at law or in equity or otherwise. The assertion or

employment of any right or remedy hereunder, or otherwise, shall not prevent the concurrent assertion or employment of any other appropriate right or remedy.

Section 6.14. *Delay or Omission not Waiver*. No delay or omission of the Trustee or of any Holder to exercise any right or remedy accruing upon any Event of Default shall impair any such right or remedy or constitute a waiver of any such Event of Default or an acquiescence therein. Every right and remedy given by this Article 6 or by law to the Trustee or to the Holders may be exercised from time to time, and as often as may be deemed expedient, by the Trustee or by the Holders, as the case may be.

ARTICLE 7

Trustee

Section 7.01. *General*. The duties and responsibilities of the Trustee shall be as provided by the Trust Indenture Act and as set forth herein. Notwithstanding the foregoing, no provision of this Indenture shall require the Trustee to expend or risk its own funds or otherwise incur any financial liability in the performance of any of its duties hereunder, or in the exercise of any of its rights or powers, unless it receives indemnity satisfactory to it against any loss, liability or expense. Whether or not therein expressly so provided, every provision of this Indenture relating to the conduct or affecting the liability of or affording protection to the Trustee shall be subject to the provisions of this Article 7.

Section 7.02. Certain Rights of Trustee. Subject to Trust Indenture Act Sections 315(a) through (d):

- (a) the Trustee may rely and shall be protected in acting or refraining from acting upon any resolution, certificate, Officers' Certificate, Opinion of Counsel (or both), statement, instrument, opinion, report, notice, request, direction, consent, order, bond, debenture, note, other evidence of indebtedness or other paper or document believed by it to be genuine and to have been signed or presented by the proper person or persons. The Trustee need not investigate any fact or matter stated in the document, but the Trustee, in its discretion, may make such further inquiry or investigation into such facts or matters as it may see fit;
- (b) before the Trustee acts or refrains from acting, it may require an Officers' Certificate and/or an Opinion of Counsel, which shall conform to Section 10.04 and shall cover such other matters as the Trustee may reasonably request. The Trustee shall not be liable for any action it takes or omits to take in good faith in reliance on such certificate or opinion. Subject to Sections 7.01 and 7.02, whenever in the administration of the trusts of this Indenture the Trustee shall deem it necessary or desirable that a matter be proved or established prior to taking or suffering or omitting any action hereunder, such matter (unless other evidence in respect thereof be herein specifically prescribed) may, in the absence of negligence or bad faith on the part of the Trustee, be deemed to be conclusively proved and established by an Officers' Certificate delivered to the Trustee, and such certificate, in the absence of negligence or bad faith on the part of the Trustee, shall be full warrant to the Trustee for any action taken, suffered or omitted by it under the provisions of this Indenture upon the faith thereof:
- (c) the Trustee may act through its attorneys and agents not regularly in its employ and shall not be responsible for the misconduct or negligence of any agent or attorney appointed with due care;
- (d) any request, direction, order or demand of the Company mentioned herein shall be sufficiently evidenced by an Officers' Certificate (unless other evidence in respect thereof be herein specifically prescribed); and any Board Resolution may be evidenced to the Trustee by a copy thereof certified by the Secretary or an Assistant Secretary of the Company;
- (e) the Trustee shall be under no obligation to exercise any of the rights or powers vested in it by this Indenture at the request, order or direction of any of the Holders, unless such Holders shall have offered to the Trustee security or indemnity reasonably satisfactory to it against any costs, expenses or liabilities that might be incurred by it in compliance with such request or direction;
- (f) the Trustee shall not be liable for any action it takes or omits to take in good faith that it believes to be authorized or within its rights or powers or for any action it takes or omits to take in accordance with the direction of the Holders in accordance with Section 6.05 relating to the time, method and place of conducting any proceeding for any remedy available to the Trustee, or exercising any trust or power conferred upon the Trustee, under this Indenture;

- (g) the Trustee may consult with counsel and the written advice of such counsel or any Opinion of Counsel shall be full and complete authorization and protection in respect of any action taken, suffered or omitted by it hereunder in good faith and in reliance thereon; and
- (h) prior to the occurrence of an Event of Default hereunder and after the curing or waiving of all Events of Default, the Trustee shall not be bound to make any investigation into the facts or matters stated in any resolution, certificate, Officers' Certificate, Opinion of Counsel, Board Resolution, statement, instrument, opinion, report, notice, request, consent, order, approval, appraisal, bond, debenture, note, coupon, security, or other paper or document unless requested in writing so to do by the Holders of not less than a majority in aggregate Principal amount of the Securities of all series affected then outstanding; provided that, if the payment within a reasonable time to the Trustee of the costs, expenses or liabilities likely to be incurred by it in the making of such investigation is, in the opinion of the Trustee, not reasonably assured to the Trustee by the security afforded to it by the terms of this Indenture, the Trustee may require reasonable indemnity against such expenses or liabilities as a condition to proceeding.

Section 7.03. *Individual Rights of Trustee*. The Trustee, in its individual or any other capacity, may become the owner or pledgee of Securities and may otherwise deal with the Company or its Affiliates with the same rights it would have if it were not the Trustee. Any Agent may do the same with like rights. However, the Trustee is subject to Trust Indenture Act Sections 310(b) and 311. For purposes of Trust Indenture Act Section 311(b)(4) and (6), the following terms shall mean:

- (a) "cash transaction" means any transaction in which full payment for goods or securities sold is made within seven days after delivery of the goods or securities in currency or in checks or other orders drawn upon banks or bankers and payable upon demand; and
- (b) "self-liquidating paper" means any draft, bill of exchange, acceptance or obligation which is made, drawn, negotiated or incurred by the Company for the purpose of financing the purchase, processing, manufacturing, shipment, storage or sale of goods, wares or merchandise and which is secured by documents evidencing title to, possession of, or a lien upon, the goods, wares or merchandise or the receivables or proceeds arising from the sale of the goods, wares or merchandise previously constituting the security, provided the security is received by the Trustee simultaneously with the creation of the creditor relationship with the Company arising from the making, drawing, negotiating or incurring of the draft, bill of exchange, acceptance or obligation.

Section 7.04. *Trustee's Disclaimer*. The recitals contained herein and in the Securities (except the Trustee's certificate of authentication) shall be taken as statements of the Company and not of the Trustee and the Trustee assumes no responsibility for the correctness of the same. Neither the Trustee nor any of its agents (a) makes any representation as to the validity or adequacy of this Indenture or the Securities and (b) shall be accountable for the Company's use or application of the proceeds from the Securities.

Section 7.05. *Notice of Default*. If any Default with respect to the Securities of any series occurs and is continuing and if such Default is known to the actual knowledge of a Responsible Officer with the Corporate Trust Office of the Trustee, the Trustee shall give to each Holder of Securities of such series notice of such Default within 90 days after it occurs to all Holders of Securities of such series in the manner and to the extent provided in Section 313(a) of the Trust Indenture Act, unless such Default shall have been cured or waived before the mailing of such notice; provided, however, that, except in the case of a Default in the payment of the Principal of or interest on any Security, the Trustee shall be protected in withholding such notice if the Trustee in good faith determines that the withholding of such notice is in the interests of the Holders.

Section 7.06. *Reports by Trustee to Holders*. The Trustee shall transmit to Holders such reports concerning the Trustee and its actions under this Indenture as may be required pursuant to the Trust Indenture Act at the times and in the manner provided pursuant thereto. If required by Section 313(a) of the Trust Indenture Act, the Trustee shall, within 60 days after each May 15 following the date of this Indenture, deliver to Holders a brief report, dated as of such May 15, which complies with the provisions of such Section 313(a).

A copy of each such report shall, at the time of such transmission to Holders, be filed by the Trustee with each stock exchange upon which any Securities are listed, with the Commission and with the Company. The Company will promptly notify the Trustee when any Securities are listed on any stock exchange.

Section 7.07. *Compensation and Indemnity*. The Company shall pay to the Trustee such compensation as shall be agreed upon in writing from time to time for its services. The compensation of the Trustee shall not be limited by any law on compensation of a Trustee of an express trust. The Company shall reimburse the Trustee and any predecessor Trustee upon request for all reasonable out-of-pocket expenses, disbursements and advances incurred or made by the Trustee or such predecessor Trustee. Such expenses shall include the reasonable compensation and expenses of the Trustee's or such predecessor Trustee's agents, counsel and other persons not regularly in their employ.

The Company shall indemnify the Trustee and any predecessor Trustee for, and hold them harmless against, any loss or liability or expense incurred by them without negligence or bad faith on their part arising out of or in connection with the acceptance or administration of this Indenture and the Securities or the issuance of the Securities or of series thereof or the trusts hereunder and the performance of duties under this Indenture and the Securities, including the costs and expenses of defending themselves against or investigating any claim or liability and of complying with any process served upon them or any of their officers in connection with the exercise or performance of any of their powers or duties under this Indenture and the Securities.

To secure the Company's payment obligations in this Section 7.07, the Trustee shall have a lien prior to the Securities on all money or property held or collected by the Trustee, in its capacity as Trustee, except money or property held in trust to pay Principal of, and interest on particular Securities.

The obligations of the Company under this Section to compensate and indemnify the Trustee and each predecessor Trustee and to pay or reimburse the Trustee and each predecessor Trustee for expenses, disbursements and advances shall constitute additional indebtedness hereunder and shall survive the satisfaction and discharge of this Indenture or the rejection or termination of this Indenture under bankruptcy law. Such additional indebtedness shall be a senior claim to that of the Securities upon all property and funds held or collected by the Trustee as such, except funds held in trust for the benefit of the Holders of particular Securities, and the Securities are hereby subordinated to such senior claim. Without prejudice to any other rights available to the Trustee under applicable law, if the Trustee renders services and incurs expenses following an Event of Default under Section 6.01(d) or Section 6.01(e) hereof, the parties hereto and the holders by their acceptance of the Securities hereby agree that such expenses are intended to constitute expenses of administration under any bankruptcy law.

Section 7.08. *Replacement of Trustee*. A resignation or removal of the Trustee as Trustee with respect to the Securities of any series and appointment of a successor Trustee as Trustee with respect to the Securities of any series shall become effective only upon the successor Trustee's acceptance of appointment as provided in this Section 7.08.

The Trustee may resign as Trustee with respect to the Securities of any series at any time by so notifying the Company in writing. The Holders of a majority in Principal amount of the outstanding Securities of any series may remove the Trustee as Trustee with respect to the Securities of such series by so notifying the Trustee in writing and may appoint a successor Trustee with respect thereto with the consent of the Company. The Company may remove the Trustee as Trustee with respect to the Securities of any series if: (i) the Trustee is no longer eligible under Section 7.11 of this Indenture; (ii) the Trustee is adjudged a bankrupt or insolvent; (iii) a receiver or other public officer takes charge of the Trustee or its property; or (iv) the Trustee becomes incapable of acting.

If the Trustee resigns or is removed as Trustee with respect to the Securities of any series, or if a vacancy exists in the office of Trustee with respect to the Securities of any series for any reason, the Company shall promptly appoint a successor Trustee with respect thereto. Within one year after the successor Trustee takes office, the Holders of a majority in Principal amount of the outstanding Securities of such series may appoint a successor Trustee in respect of such Securities to replace the successor Trustee appointed by the Company. If the successor Trustee with respect to the Securities of any series does not deliver its written acceptance required by Section 7.09 within 30 days after the retiring Trustee resigns or is removed, the retiring Trustee, the Company or the Holders of a majority in Principal amount of the outstanding Securities of such series may petition any court of competent jurisdiction for the appointment of a successor Trustee with respect thereto.

The Company shall give notice of any resignation and any removal of the Trustee with respect to the Securities of any series and each appointment of a successor Trustee in respect of the Securities of such series to all Holders of Securities of such series. Each notice shall include the name of the successor Trustee and the address of its Corporate Trust Office.

Notwithstanding replacement of the Trustee with respect to the Securities of any series pursuant to this Section 7.08 and Section 7.09, the Company's obligations under Section 7.07 shall continue for the benefit of the retiring Trustee.

Section 7.09. Acceptance of Appointment by Successor. In case of the appointment hereunder of a successor Trustee with respect to all Securities, every such successor Trustee so appointed shall execute, acknowledge and deliver to the Company and to the retiring Trustee an instrument accepting such appointment, and thereupon the resignation or removal of the retiring Trustee shall become effective and such successor Trustee, without any further act, deed or conveyance, shall become vested with all the rights, powers, trusts and duties of the retiring Trustee; but, on the request of the Company or the successor Trustee, such retiring Trustee shall, upon payment of its charges and subject to the lien provided for in Section 7.07, execute and deliver an instrument transferring to such successor Trustee all the rights, powers and trusts of the retiring Trustee and shall duly assign, transfer and deliver to such successor Trustee all property and money held by such retiring Trustee hereunder.

In case of the appointment hereunder of a successor Trustee with respect to the Securities of one or more (but not all) series, the Company, the retiring Trustee and each successor Trustee with respect to the Securities of one or more series shall execute and deliver an indenture supplemental hereto wherein each successor Trustee shall accept such appointment and which (1) shall contain such provisions as shall be necessary or desirable to transfer and confirm to, and to vest in, each successor Trustee all the rights, powers, trusts and duties of the retiring Trustee with respect to the Securities of that or those series to which the appointment of such successor Trustee relates, (2) if the retiring Trustee is not retiring with respect to all Securities, shall contain such provisions as shall be deemed necessary or desirable to confirm that all the rights, powers, trusts and duties of the retiring Trustee with respect to the Securities of that or those series as to which the retiring Trustee is not retiring shall continue to be vested in the retiring Trustee, and (3) shall add to or change any of the provisions of this Indenture as shall be necessary to provide for or facilitate the administration of the trusts hereunder by more than one Trustee, it being understood that nothing herein or in such supplemental indenture shall constitute such Trustees co-trustees of the same trust and that each such Trustee shall be trustee of a trust or trusts hereunder separate and apart from any trust or trusts hereunder administered by any other such Trustee; and upon the execution and delivery of such supplemental indenture the resignation or removal of the retiring Trustee shall become effective to the extent provided therein and each such successor Trustee, without any further act, deed or conveyance, shall become vested with all the rights, powers, trusts and duties of the retiring Trustee with respect to the Securities of that or those series to which the appointment of such successor Trustee relates; but, on request of

Upon request of any such successor Trustee, the Company shall execute any and all instruments for more fully and certainly vesting in and confirming to such successor Trustee all such rights, powers and trusts referred to in the first or second preceding paragraph, as the case may be.

No successor Trustee shall accept its appointment unless at the time of such acceptance such successor Trustee shall be eligible under this Article and qualified under Section 310(b) of the Trust Indenture Act.

Section 7.10. *Successor Trustee By Merger*, *Etc.* If the Trustee consolidates with, merges or converts into, or transfers all or substantially all of its corporate trust business to, another corporation or national banking association, the resulting, surviving or transferee corporation or national banking association without any further act shall be the successor Trustee with the same effect as if the successor Trustee had been named as the Trustee herein.

Section 7.11. *Eligibility*. This Indenture shall always have a Trustee who satisfies the requirements of Trust Indenture Act Section 310(a). The Trustee shall have a combined capital and surplus of at least \$25,000,000 as set forth in its most recent published annual report of condition.

Section 7.12. *Money Held in Trust*. The Trustee shall not be liable for interest on any money received by it except as the Trustee may agree in writing with the Company. Money held in trust by the Trustee need not be segregated from other funds except to the extent required by law and except for money held in trust under Article 8 of this Indenture.

ARTICLE 8

Satisfaction And Discharge of Indenture: Unclaimed Moneys

Section 8.01. Satisfaction and Discharge of Indenture. If at any time (a) (i) all Securities of any series issued that have been authenticated and delivered have been delivered by the Company to the Trustee for cancellation (other than Securities of such series which have been destroyed, lost or stolen and which have been replaced or paid as provided in Section 2.08); or (ii) all the Securities of any series issued that have not been delivered by the Company to the Trustee for cancellation shall have become due and payable, or are by their terms to become due and payable within one year or are to be called for redemption within one year under arrangements satisfactory to the Trustee for the giving of notice of redemption by such Trustee in the Company's name and at the Company's expense, the Company shall have irrevocably deposited or caused to be deposited with the Trustee as trust funds the entire amount in cash (other than moneys repaid by the Trustee or any paying agent to the Company in accordance with Section 8.04) or U.S. Government Obligations, maturing as to principal and interest in such amounts and at such times as will insure (without consideration of the reinvestment of such interest) the availability of cash, or a combination thereof, sufficient to pay at maturity or upon redemption all Securities of such series (other than any Securities of such series which shall have been destroyed, lost or stolen and which shall have been replaced or paid as provided in Section 2.08) not theretofore delivered to the Trustee for cancellation, including Principal and interest due or to become due on or prior to such date of maturity or redemption as the case may be; (b) the Company has paid or caused to be paid all other sums then due and payable under this Indenture; and (c) the Company has delivered to the Trustee an Officers' Certificate and an Opinion of Counsel, each stating that all conditions precedent under this Indenture relating to the satisfaction and discharge of this Indenture pursuant to this Section 8.01 have been complied with, then this Indenture shall cease to be of further effect with respect to Securities of such series (except as to (i) rights of registration of transfer and exchange of securities of such series, and the Company's right of optional redemption, if any, (ii) substitution of mutilated, defaced, destroyed, lost or stolen Securities, (iii) rights of holders to receive payments of Principal thereof and interest thereon, upon the original stated due dates therefor (but not upon acceleration) and remaining rights of the holders to receive mandatory sinking fund payments, if any, (iv) the rights, obligations and immunities of the Trustee hereunder and (v) the rights of the Securityholders of such series as beneficiaries hereof with respect to the property so deposited with the Trustee payable to all or any of them), and the Trustee, on demand of the Company accompanied by an Officers' Certificate and an Opinion of Counsel and at the cost and expense of the Company, shall execute proper instruments acknowledging such satisfaction of and discharging this Indenture with respect to such series; provided that the rights of Holders of the Securities to receive amounts in respect of Principal of and interest on the Securities held by them shall not be delayed longer than required by then-applicable mandatory rules or policies of any securities exchange upon which the Securities are listed. The Company agrees to reimburse the Trustee for any costs or expenses thereafter reasonably and properly incurred and to compensate the Trustee for any services thereafter reasonably and properly rendered by the Trustee in connection with this Indenture or the Securities of such series.

Section 8.02. Application by Trustee of Funds Deposited for Payment of Securities. Subject to Section 8.04, all moneys (including U.S. Government Obligations and the proceeds thereof) deposited with the Trustee pursuant to Section 8.01, Section 8.05 or Section 8.06 shall be held in trust and applied by it to the payment, either directly or through any paying agent to the Holders of the particular Securities of such series for the payment or redemption of which such moneys have been deposited with the Trustee, of all sums due and to become due thereon for Principal and interest; but such money need not be segregated from other funds except to the extent required by law.

Section 8.03. *Repayment of Moneys Held by Paying Agent*. In connection with the satisfaction and discharge of this Indenture with respect to Securities of any series, all moneys then held by any paying agent under the provisions of this Indenture with respect to such series of Securities shall, upon demand of the Company, be repaid to it or paid to the Trustee and thereupon such paying agent shall be released from all further liability with respect to such moneys.

Section 8.04. Return of Moneys Held by Trustee and Paying Agent Unclaimed for Two Years. Any moneys deposited with or paid to the Trustee or any paying agent for the payment of the Principal of or interest on any Security of any series and not applied but remaining unclaimed for two years after the date upon which such Principal or interest shall have become due and payable, shall, upon the written request of the Company and unless otherwise required by mandatory provisions of applicable escheat or abandoned or unclaimed property law, be repaid to the Company by the Trustee for such series or such paying agent, and the Holder of the Security of such series shall, unless otherwise required by mandatory provisions of applicable escheat or abandoned or unclaimed

property laws, thereafter look only to the Company for any payment which such Holder may be entitled to collect, and all liability of the Trustee or any paying agent with respect to such moneys shall thereupon cease.

Section 8.05. *Defeasance and Discharge of Indenture*. The Company shall be deemed to have paid and shall be discharged from any and all obligations in respect of the Securities of any series, after the deposit referred to in clause (i) hereof has been made, and the provisions of this Indenture shall no longer be in effect with respect to the Securities of such series (and the Trustee, at the expense of the Company, shall execute proper instruments acknowledging the same), except as to: (a) rights of Holders of the Securities of such series to receive payments of Principal thereof, premium thereto, and interest thereon, upon the original stated due dates therefor, (b) the Company's obligations with respect to the issuance of temporary Securities and the registration of transfer with respect to the Securities of such series, the Company's right of optional redemption, substitution of mutilated, defaced, destroyed, lost or stolen Securities of such series and the maintenance of an office or agency for payment for security payments held in trust pursuant to clause (i) hereof, (c) the rights, obligations and immunities of the Trustee hereunder, and (d) the defeasance provisions contained in Article 8 of this Indenture; *provided* that the following conditions shall have been satisfied:

- (i) with reference to this Section 8.05 the Company irrevocably has deposited or caused to be deposited with the Trustee (or another qualifying trustee satisfying the requirements of Section 7.11) as trust funds in trust, for the purposes of making the following payments, specifically pledged as security for, and dedicated solely to, the benefit of the Holders of the Securities of such series, (A) money in an amount, (B) U.S. Government Obligations which through the payment of interest and principal in respect thereof in accordance with their terms will provide not later than one day before the due date of any payment referred to in subclause (x) or (y) of this clause (i), or (C) a combination thereof, in each case sufficient, in the written opinion of a nationally recognized firm of independent public accountants expressed in a written certification thereof delivered to the Trustee, to pay and discharge, without consideration of reinvestment and after payment of all federal, state and local taxes or other charges and assessments in respect thereof, and which shall be applied by the Trustee to pay and discharge (x) all of the Principal of, premium, if any, and each installment of interest on the outstanding Securities of such series on the maturity or due dates thereof or if the Company has made irrevocable arrangements satisfactory to the Trustee for the giving of notice of redemption by the Trustee, the redemption date, as the case may be, and (y) any mandatory sinking fund payments or analogous payments applicable to the Securities of such series on the day on which such payments are due and payable in accordance with the terms of Securities of such series and the Indenture with respect to the Securities of such series;
- (ii) the Company has delivered to the Trustee an Opinion of Counsel to the effect that, under then applicable U.S. federal income tax law, Holders of Securities of such series will not recognize gain or loss for U.S. federal income tax purposes as a result of the Company's exercise of its option under this Section 8.05 and will be subject to U.S. federal income tax on the same amount and in the same manner and at the same times as would have been the case if such deposit, defeasance and discharge had not occurred;
 - (iii) no Default under either clause (d) or clause (e) of Section 6.01 shall have occurred and be continuing at such time;
- (iv) if at such time the Securities of such series are listed on a national securities exchange, the Company has delivered to the Trustee an Opinion of Counsel to the effect that the Securities of such series will not be delisted as a result of such deposit, defeasance and discharge;
- (v) the Company shall have delivered to the Trustee an Officers' Certificate and an Opinion of Counsel, each stating that all conditions precedent to the defeasance and discharge under this Section 8.05 have been complied with; and
- (vi) if the Securities of such series are to be redeemed prior to the final maturity thereof (other than from mandatory sinking fund payments or analogous payments), notice of such redemption shall have been duly given pursuant to this Indenture or provision therefor satisfactory to the Trustee shall have been made.

Section 8.06. *Defeasance of Certain Obligations*. The Company may omit to comply with any term, provision or condition set forth in, and this Indenture will no longer be in effect with respect to, any covenant established pursuant to Section 2.03(s) and clause (c) and clause (f) (with respect to any covenants established pursuant to

Section 2.03(s)) of Section 6.01 shall be deemed not to constitute a Default or an Event of Default with respect to Securities of any series, if:

- (a) with reference to this Section 8.06, the Company has irrevocably deposited or caused to be deposited with the Trustee (or another qualifying trustee satisfying the requirements of Section 7.11) as trust funds in trust, for the purposes of making the following payments, specifically pledged as security for, and dedicated solely to, the benefits of the Holders of the Securities of such series, (i) money in an amount, (ii) U.S. Government Obligations which through the payment of interest and principal in respect thereof in accordance with their terms will provide not later than one day before the due date of any payment referred to in subclause (x) or (y) of this clause (a), or (iii) a combination thereof, in each case sufficient, in the written opinion of a nationally recognized firm of independent public accountants expressed in a written certification thereof delivered to the Trustee, to pay and discharge, without consideration of reinvestment and after payment of all federal, state and local taxes or other charges and assessments in respect thereof, and which shall be applied by the Trustee to pay and discharge (x) all of the Principal of, premium, if any, and each installment of interest on the outstanding Securities of such series on the maturity or due dates thereof or if the Company has made irrevocable arrangements satisfactory to the Trustee for the giving of notice of redemption by the Trustee, the redemption date, as the case may be, and (y) any mandatory sinking fund payments or analogous payments applicable to the Securities of such series on the day on which such payments are due and payable in accordance with the terms of the Securities of such series and the Indenture with respect to the Securities of such series;
- (b) the Company has delivered to the Trustee an Opinion of Counsel to the effect that Holders of Securities of such series will not recognize gain or loss for U.S. federal income tax purposes as a result of the Company's exercise of its option under this Section 8.06 and will be subject to U.S. federal income tax on the same amount and in the same manner and at the same times as would have been the case if such deposit and defeasance had not occurred;
- (c) no Default with respect to the outstanding Securities of such series shall have occurred and be continuing at the time of such deposit immediately after giving effect to such deposit;
- (d) if at such time the Securities of such series are listed on a national securities exchange, the Company has delivered to the Trustee an Opinion of Counsel to the effect that the Securities of such series will not be delisted as a result of such deposit, defeasance and discharge;
- (e) the Company shall have delivered to the Trustee an Officers' Certificate and an Opinion of Counsel, each stating that all conditions precedent to the defeasance under this Section have been complied with; and
- (f) if the Securities of such series are to be redeemed prior to the final maturity thereof (other than from mandatory sinking fund payments or analogous payments), notice of such redemption shall have been duly given pursuant to this Indenture or provision therefor satisfactory to the Trustee shall have been made.

Section 8.07. *Reinstatement*. If the Trustee or paying agent is unable to apply any monies or U.S. Government Obligations in accordance with Article 8 by reason of any legal proceeding or by reason of any order or judgment of any court or governmental authority enjoining, restraining or otherwise prohibiting such application, the Company's obligations under this Indenture and the Securities shall be revived and reinstated as though no deposit had occurred pursuant to this Article until such time as the Trustee or paying agent is permitted to apply all such monies or U.S. Government Obligations in accordance with Article 8; provided, however, that if the Company has made any payment of Principal of or interest on any Securities because of the reinstatement of its obligations, the Company shall be subrogated to the rights of the Holders of such Securities to receive such payment from the monies or U.S. Government Obligations held by the Trustee or paying agent.

Section 8.08. *Indemnity*. The Company shall pay and indemnify the Trustee (or other qualifying trustee, collectively for purposes of this Section 8.08 and Section 8.02, the "Trustee") against any tax, fee or other charge, imposed on or assessed against the U.S. Government Obligations deposited pursuant to Section 8.01, 8.05 or 8.06 or the principal or interest received in respect thereof other than any such tax, fee or other charge which by law is for the account of the Holders of the Securities.

Section 8.09. *Excess Funds*. Anything in this Article 8 to the contrary notwithstanding, the Trustee shall deliver or pay to the Company from time to time upon request of the Company, any money or U.S. Government Obligations

(or other property and any proceeds therefrom) held by it as provided in Section 8.01, 8.05 or 8.06 which, in the opinion of a nationally recognized firm of independent public accountants expressed in a written certification thereof delivered to the Trustee, are in excess of the amount thereof which would then be required to be deposited to effect a discharge or defeasance, as applicable, in accordance with this Article 8.

Section 8.10. *Qualifying Trustee*. Any trustee appointed pursuant to Section 8.05 or 8.06 for the purpose of holding money or U.S. Government Obligations deposited pursuant to such Sections shall be appointed under an agreement in form acceptable to the Trustee and shall provide to the Trustee a certificate, upon which certificate the Trustee shall be entitled to conclusively rely, that all conditions precedent provided for herein to the related defeasance have been complied with. In no event shall the Trustee be liable for any acts or omissions of said trustee.

ARTICLE 9

AMENDMENTS, SUPPLEMENTS AND WAIVERS

Section 9.01. *Without Consent of Holders*. The Company and the Trustee may amend or supplement this Indenture or the Securities of any series without notice to or the consent of any Holder:

- (a) to cure any ambiguity, defect or inconsistency in this Indenture;
- (b) to comply with Article 5;
- (c) to maintain the qualification of this Indenture under the Trust Indenture Act;
- (d) to evidence and provide for the acceptance of appointment hereunder with respect to the Securities of any or all series by a successor Trustee and to add to or change any of the provisions of this Indenture as shall be necessary to provide for or facilitate the administration of the trusts hereunder by more than one Trustee, pursuant to the requirements of Section 7.09;
 - (e) to establish the form or forms or terms of Securities of any series as permitted by Section 2.03;
 - (f) to provide for uncertificated Securities and to make all appropriate changes for such purpose;
 - (g) to conform any provision to the applicable corresponding provision set forth in the offering document for the offering of such series of Securities; and
 - (h) to make any change that does not materially and adversely affect the rights of any Holder.

Section 9.02. *With Consent of Holders*. Subject to Sections 6.04 and 6.07, without prior notice to any Holders, the Company and the Trustee may amend this Indenture and the Securities of any series with the written consent of the Holders of a majority in Principal amount of the outstanding Securities of each series affected by such amendment (all such series voting together as a single class), and the Holders of a majority in Principal amount of the outstanding Securities of each series affected thereby (all such series voting together as a single class) by written notice to the Trustee may waive future compliance by the Company with any provision of this Indenture or the Securities of such series.

Notwithstanding the provisions of this Section 9.02, without the consent of each Holder affected thereby, an amendment or waiver, including a waiver pursuant to Section 6.04, may not:

- (a) change the stated maturity of the Principal of, or any sinking fund obligation or any installment of interest on, such Holder's Security,
- (b) reduce the Principal amount thereof or the rate of interest thereon (including any amount in respect of original issue discount);
- (c) reduce the above stated percentage of outstanding Securities the consent of whose holders is necessary to modify or amend the Indenture with respect to the Securities of the relevant series; and

(d) reduce the percentage in Principal amount of outstanding Securities of the relevant series the consent of whose Holders is required for any supplemental indenture or for any waiver of compliance with certain provisions of this Indenture or certain Defaults and their consequences provided for in this Indenture.

A supplemental indenture which changes or eliminates any covenant or other provision of this Indenture which has expressly been included solely for the benefit of one or more particular series of Securities, or which modifies the rights of Holders of Securities of such series with respect to such covenant or provision, shall be deemed not to affect the rights under this Indenture of the Holders of Securities of any other series.

It shall not be necessary for the consent of any Holder under this Section 9.02 to approve the particular form of any proposed amendment, supplement or waiver, but it shall be sufficient if such consent approves the substance thereof.

After an amendment, supplement or waiver under this Section 9.02 becomes effective, the Company shall give to the Holders affected thereby a notice briefly describing the amendment, supplement or waiver. The Company will mail supplemental indentures to Holders upon request. Any failure of the Company to mail such notice, or any defect therein, shall not, however, in any way impair or affect the validity of any such supplemental indenture or waiver.

Section 9.03. *Revocation and Effect of Consent*. Until an amendment or waiver becomes effective, a consent to it by a Holder is a continuing consent by the Holder and every subsequent Holder of a Security or portion of a Security that evidences the same debt as the Security of the consenting Holder, even if notation of the consent is not made on any Security. However, any such Holder or subsequent Holder may revoke the consent as to its Security or portion of its Security. Such revocation shall be effective only if the Trustee receives the notice of revocation before the date the amendment, supplement or waiver becomes effective. An amendment, supplement or waiver shall become effective with respect to any Securities affected thereby on receipt by the Trustee of written consents from the requisite Holders of outstanding Securities affected thereby.

The Company may, but shall not be obligated to, fix a record date (which may be not less than five nor more than 60 days prior to the solicitation of consents) for the purpose of determining the Holders of the Securities of any series affected entitled to consent to any amendment, supplement or waiver. If a record date is fixed, then, notwithstanding the immediately preceding paragraph, those Persons who were such Holders at such record date (or their duly designated proxies) and only those Persons shall be entitled to consent to such amendment, supplement or waiver or to revoke any consent previously given, whether or not such Persons continue to be such Holders after such record date. No such consent shall be valid or effective for more than 90 days after such record date.

After an amendment, supplement or waiver becomes effective with respect to the Securities of any series affected thereby, it shall bind every Holder of such Securities unless it is of the type described in any of clauses (a) through (d) of Section 9.02. In case of an amendment or waiver of the type described in clauses (a) through (d) of Section 9.02, the amendment or waiver shall bind each such Holder who has consented to it and every subsequent Holder of a Security that evidences the same indebtedness as the Security of the consenting Holder.

Section 9.04. *Notation on or Exchange of Securities*. If an amendment, supplement or waiver changes the terms of any Security, the Trustee may require the Holder thereof to deliver it to the Trustee. The Trustee may place an appropriate notation on the Security about the changed terms and return it to the Holder and the Trustee may place an appropriate notation on any Security of such series thereafter authenticated. Alternatively, if the Company or the Trustee so determines, the Company in exchange for the Security shall issue and the Trustee shall authenticate a new Security of the same series and tenor that reflects the changed terms.

Section 9.05. *Trustee to Sign Amendments, Etc.* The Trustee shall be entitled to receive, and shall be fully protected in relying upon, an Opinion of Counsel stating that the execution of any amendment, supplement or waiver authorized pursuant to this Article 9 is authorized or permitted by this Indenture, stating that all requisite consents have been obtained or that no consents are required and stating that such supplemental indenture constitutes the legal, valid and binding obligation of the Company, enforceable against the Company in accordance with its terms, subject to customary exceptions. The Trustee may, but shall not be obligated to, execute any such amendment, supplement or waiver that affects the Trustee's own rights, duties or immunities under this Indenture or otherwise.

Section 9.06. *Conformity with Trust Indenture Act*. Every supplemental indenture executed pursuant to this Article 9 shall conform to the requirements of the Trust Indenture Act as then in effect.

ARTICLE 10

MISCELLANEOUS

Section 10.01. *Trust Indenture Act of 1939*. This Indenture shall incorporate and be governed by the provisions of the Trust Indenture Act that are required to be part of and to govern indentures qualified under the Trust Indenture Act.

Section 10.02. *Notices*. Any notice or communication shall be sufficiently given if written and (a) if delivered in person, when received or (b) if mailed by first class mail, 5 days after mailing, or (c) as between the Company and the Trustee if sent by facsimile transmission, when transmission is confirmed, in each case addressed as follows:

if to the Company:

Affimed N.V.
Technologiepark, Im Neuenheimer Feld 582
69120 Heidelberg, Germany
Facsimile: []
Attention: General Counsel

if to the Trustee:

[·]
[·]
[·]
Facsimile: [·]

Attention: $[\cdot]$

The Company or the Trustee by written notice to the other may designate additional or different addresses for subsequent notices or communications.

Any notice or communication shall be sufficiently given to Holders by mailing to such Holders at their addresses as they shall appear on the Security Register. Notice mailed shall be sufficiently given if so mailed within the time prescribed. Copies of any such communication or notice to a Holder shall also be mailed to the Trustee and each Agent at the same time.

Failure to mail a notice or communication to a Holder or any defect in it shall not affect its sufficiency with respect to other Holders. Except as otherwise provided in this Indenture, if a notice or communication is mailed in the manner provided in this Section 10.02, it is duly given, whether or not the addressee receives it.

Where this Indenture provides for notice in any manner, such notice may be waived in writing by the Person entitled to receive such notice, either before or after the event, and such waiver shall be the equivalent of such notice. Waivers of notice by Holders shall be filed with the Trustee, but such filing shall not be a condition precedent to the validity of any action taken in reliance upon such waiver.

In case it shall be impracticable to give notice as herein contemplated, then such notification as shall be made with the approval of the Trustee shall constitute a sufficient notification for every purpose hereunder.

Section 10.03. *Certificate and Opinion as to Conditions Precedent*. Upon any request or application by the Company to the Trustee to take any action under this Indenture, the Company shall furnish to the Trustee:

- (a) an Officers' Certificate stating that, in the opinion of the signers, all conditions precedent, if any, provided for in this Indenture relating to the proposed action have been complied with; and
 - (b) an Opinion of Counsel stating that, in the opinion of such counsel, all such conditions precedent have been complied with.

Section 10.04. *Statements Required in Certificate or Opinion*. Each certificate or opinion with respect to compliance with a condition or covenant provided for in this Indenture (other than the certificate required by Section 4.04) shall include:

- (a) a statement that each person signing such certificate or opinion has read such covenant or condition and the definitions herein relating thereto;
- (b) a brief statement as to the nature and scope of the examination or investigation upon which the statement or opinion contained in such certificate or opinion is based;
- (c) a statement that, in the opinion of each such person, he has made such examination or investigation as is necessary to enable him to express an informed opinion as to whether or not such covenant or condition has been complied with; and
- (d) a statement as to whether or not, in the opinion of each such person, such condition or covenant has been complied with; *provided*, *however*, that, with respect to matters of fact, an Opinion of Counsel may rely on an Officers' Certificate or certificates of public officials.

Section 10.05. *Evidence of Ownership*. The Company, the Trustee and any agent of the Company or the Trustee may deem and treat the person in whose name any Security shall be registered upon the Security Register for such series as the absolute owner of such Security (whether or not such Security shall be overdue and notwithstanding any notation of ownership or other writing thereon) for the purpose of receiving payment of or on account of the Principal of and, subject to the provisions of this Indenture, interest on such Security and for all other purposes; and neither the Company nor the Trustee nor any agent of the Company or the Trustee shall be affected by any notice to the contrary.

Section 10.06. *Rules by Trustee*, *Paying Agent or Registrar*. The Trustee may make reasonable rules for action by or at a meeting of Holders. The Paying Agent or Registrar may make reasonable rules for its functions.

Section 10.07. *Payment Date Other Than a Business Day*. Except as otherwise provided with respect to a series of Securities, if any date for payment of Principal or interest on any Security shall not be a Business Day at any place of payment, then payment of Principal of or interest on such Security, as the case may be, need not be made on such date, but may be made on the next succeeding Business Day at any place of payment with the same force and effect as if made on such date and no interest shall accrue in respect of such payment for the period from and after such date.

Section 10.08. Governing Law. The laws of the State of New York shall govern this Indenture and the Securities.

Section 10.09. *No Adverse Interpretation of Other Agreements*. This Indenture may not be used to interpret another indenture or loan or debt agreement of the Company or any Subsidiary of the Company. Any such indenture or agreement may not be used to interpret this Indenture.

Section 10.10. *Successors*. All agreements of the Company in this Indenture and the Securities shall bind its successors. All agreements of the Trustee in this Indenture shall bind its successors.

Section 10.11. *Duplicate Originals*. The parties may sign any number of copies of this Indenture. Each signed copy shall be an original, but all of them together represent the same agreement.

Section 10.12. *Separability*. In case any provision in this Indenture or in the Securities shall be invalid, illegal or unenforceable, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired thereby.

Section 10.13. *Table of Contents, Headings, Etc.* The Table of Contents and headings of the Articles and Sections of this Indenture have been inserted for convenience of reference only, are not to be considered a part hereof and shall in no way modify or restrict any of the terms and provisions hereof.

Section 10.14. *Incorporators, Stockholders, Officers and Directors of Company Exempt from Individual Liability*. No recourse under or upon any obligation, covenant or agreement contained in this Indenture or any

indenture supplemental hereto, or in any Security, or because of any indebtedness evidenced thereby, shall be had against any incorporator, as such or against any past, present or future stockholder, officer, director or employee, as such, of the Company or of any successor, either directly or through the Company or any successor, under any rule of law, statute or constitutional provision or by the enforcement of any assessment or by any legal or equitable proceeding or otherwise, all such liability being expressly waived and released by the acceptance of the Securities by the holders thereof and as part of the consideration for the issue of the Securities.

Section 10.15. *Judgment Currency*. The Company agrees, to the fullest extent that it may effectively do so under applicable law, that (a) if for the purpose of obtaining judgment in any court it is necessary to convert the sum due in respect of the Principal of or interest on the Securities of any series (the "Required Currency") into a currency in which a judgment will be rendered (the "Judgment Currency"), the rate of exchange used shall be the rate at which in accordance with normal banking procedures the Trustee could purchase in The City of New York the Required Currency with the Judgment Currency on the day on which final unappealable judgment is entered, unless such day is not a Business Day, then, to the extent permitted by applicable law, the rate of exchange used shall be the rate at which in accordance with normal banking procedures the Trustee could purchase in The City of New York the Required Currency with the Judgment Currency on the Business Day preceding the day on which final unappealable judgment is entered and (b) its obligations under this Indenture to make payments in the Required Currency (i) shall not be discharged or satisfied by any tender, or any recovery pursuant to any judgment (whether or not entered in accordance with subsection (a)), in any currency other than the Required Currency, except to the extent that such tender or recovery shall result in the actual receipt, by the payee, of the full amount of the Required Currency expressed to be payable in respect of such payments, (ii) shall be enforceable as an alternative or additional cause of action for the purpose of recovering in the Required Currency the amount, if any, by which such actual receipt shall fall short of the full amount of the Required Currency so expressed to be payable and (iii) shall not be affected by judgment being obtained for any other sum due under this Indenture.

Section 10.16. Waiver of Jury Trial. EACH OF THE COMPANY AND THE TRUSTEE IRREVOCABLY WAIVES, TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, ANY AND ALL RIGHT TO TRIAL BY JURY IN ANY LEGAL PROCEEDING ARISING OUT OF OR RELATING TO THIS INDENTURE, THE SECURITIES OR THE TRANSACTIONS CONTEMPLATED HEREBY.

Section 10.17. Force Majeure. In no event shall the Trustee be responsible or liable for any failure or delay in the performance of its obligations hereunder arising out of or caused by, directly or indirectly, forces beyond its control, including, without limitation, strikes, work stoppages, accidents, acts of war or terrorism, civil or military disturbances, nuclear or natural catastrophes or acts of God, and interruptions, loss or malfunctions of utilities, communications or computer (software and hardware) services; it being understood that the Trustee shall use reasonable efforts which are consistent with accepted practices in the banking industry to resume performance as soon as practicable under the circumstances.

ARTICLE 11

SUBORDINATION

Section 11.01. Agreement to Subordinate. The Company covenants and agrees, and each Holder of a Security issued hereunder, by his acceptance thereof, likewise covenants and agrees, that all Securities shall be issued subject to the provisions of this Article; and each Person holding any Security, whether upon original issue or upon transfer, assignment or exchange thereof, accepts and agrees that the principal of and interest on all Securities issued hereunder shall, to the extent and in the manner herein set forth, be subordinated and subject in right of payment to the prior payment in full of all Senior Indebtedness, and that the subordination is for the benefit of the holders of the Senior Indebtedness.

Section 11.02. *Payments to Securityholders*. As to each series of Securities, if any, issued hereunder, in the event (a) of any insolvency or bankruptcy proceedings, or any receivership, dissolution, winding-up, total or partial liquidation, reorganization or other similar proceedings in respect of the Company or a substantial part of its property, whether voluntary or involuntary, or (b) that (i) a default shall have occurred with respect to the payment of principal of or interest on or other monetary amounts due and payable with respect to any Senior Indebtedness, or (ii) there shall have occurred an event of default (other than a default in the payment of principal or interest or other monetary amounts due and payable) in respect of any Senior Indebtedness, as defined in such Senior Indebtedness or in the instrument under which the same is outstanding, permitting the holder or holders thereof to accelerate the maturity thereof, and such default or event of default shall not be cured or was continued beyond the period of grace,

if any, in respect thereof, and such default or event of default shall not have been waived or shall not have ceased to exist, or (c) separately with respect to each series of Securities, that the principal of and accrued interest on such Securities shall have been declared due and payable pursuant to Section 6.01 and such declaration shall not have been rescinded and annulled as provided in Section 6.01, then the holders of all Senior Indebtedness shall first be entitled to receive payment in full of all amounts due or to become due thereon, or provision shall be made, in accordance with the terms of such Senior Indebtedness, for such payment in money or money's worth, before the Holders of such series of Securities are entitled to receive a payment on account of the principal of or interest on the indebtedness evidenced by such series of Securities, including, without limitation, any payments made pursuant to Article 3, or any cash payments to purchase such series of Securities at the option of the Holders thereof.

Upon any such insolvency or bankruptcy proceeding, receivership, dissolution, winding-up, total or partial liquidation, reorganization, or other similar proceeding referred to in clause (a) of the immediately preceding paragraph, any payment or distribution of assets of the Company of any kind or character, whether in cash, property or securities, to which the Holders of the Securities or the Trustee under this Indenture would be entitled, except for the provisions hereof, shall be paid by the Company or by any receiver, trustee in bankruptcy, liquidating trustee, agent or other Person making such payment or distribution or, to the extent required by the next succeeding paragraph, by the Holders of the Securities or the Trustee, if received by them or it, directly to the holders of Senior Indebtedness (pro rata to such holders on the basis of the respective amounts of Senior Indebtedness held by such holders) or their respective representatives, or to the trustee or trustees under any indenture pursuant to which any instruments evidencing any of such Senior Indebtedness may have been issued, as their respective interests may appear, to the extent necessary to pay all Senior Indebtedness in full after giving effect to any concurrent payment or distribution to or for the holders of Senior Indebtedness, before any payment or distribution is made to the Holders of the indebtedness evidenced by the Securities (including any cash payments to repurchase such Securities at the option of the Holders thereof) or to the Trustee under this Indenture.

In the event that, notwithstanding the foregoing, any payment or distribution of assets of the Company of any kind or character, whether in cash, property or securities, prohibited by the foregoing provisions of this Section, shall be received by the Trustee under this Indenture or the Holders of the Securities before all Senior Indebtedness is paid in full or provision is made for such payment in accordance with its terms, and if such fact shall, at or prior to the time of such payment or distribution, have been known to the Trustee, then such payment or distribution shall be held in trust for the benefit of and shall be paid over or delivered to the holders of such Senior Indebtedness or their respective representatives, or to the trustee or trustees under any indenture pursuant to which any instruments evidencing any of such Senior Indebtedness may have been issued, as their respective interests may appear, for application to the payment of all Senior Indebtedness remaining unpaid until all such Senior Indebtedness shall have been paid in full in accordance with its terms, after giving effect to any concurrent payment or distribution to or for the holders of such Senior Indebtedness.

For purposes of this Article only, the words, "cash, property or securities" shall not be deemed to include shares of stock of the Company as reorganized or readjusted, or securities of the Company or any other corporation provided for by a plan of arrangement, reorganization or readjustment, the payment of which is subordinated (at least to the extent provided in this Article with respect to the Securities) to the payment of all Senior Indebtedness which may at the time be outstanding; provided that (i) the Senior Indebtedness is assumed by the new corporation, if any, resulting from any such arrangement, reorganization or readjustment, and (ii) the rights of the holders of the Senior Indebtedness are not, without the consent of such holders, altered by such arrangement, reorganization or readjustment. The consolidation of the Company with, or the merger of the Company with or into, another corporation or the liquidation or dissolution of the Company following the conveyance or transfer of all or substantially all of its assets to another corporation upon the terms and conditions provided in Article 5 shall not be deemed a dissolution, winding-up, liquidation or reorganization for the purposes of this Section if such other corporation shall, as a part of such consolidation, merger, conveyance or transfer, comply with the conditions stated in Article 5. Nothing in this Section shall apply to claims of, or payments to, the Trustee under or pursuant to Article 7, except as expressly provided therein. This Section shall be subject to the further provisions of Section 11.05

Section 11.03. *Subrogation*. Subject to the payment in full of all Senior Indebtedness, the Holders of the Securities subject to the provisions of Section 11.02 shall be subrogated (equally and ratably with the holders of all obligations of the Company which by their express terms are subordinated to Senior Indebtedness of the Company to the same extent as the Securities are subordinated and which are entitled to like rights of subrogation) to the rights of the holders of Senior Indebtedness to receive payments or distributions of cash, property or securities of the Company applicable to the Senior Indebtedness until the principal of and interest on such Securities shall be paid in

full; and, for the purpose of such subrogation, no payments or distributions to the holders of the Senior Indebtedness of any cash, property or securities to which the Holders of such Securities or the Trustee on their behalf would be entitled except for the provisions of this Article, and no payment over pursuant to the provisions of this Article to the holders of Senior Indebtedness by Holders of such Securities or the Trustee on their behalf shall, as between the Company, its creditors other than holders of Senior Indebtedness and the Holders of such Securities, be deemed to be a payment by the Company to or on account of the Senior Indebtedness; and no payments or distributions of cash, property or securities to or for the benefit of the Holders of the Securities pursuant to the subrogation provision of this Article, which would otherwise have been paid to the holders of Senior Indebtedness, shall be deemed to be a payment by the Company to or for the account of such Securities. The provisions of this Article are intended solely for the purpose of defining the relative rights of the Holders of the Securities, on the one hand, and the holders of the Senior Indebtedness, on the other hand.

Nothing contained in this Article or elsewhere in this Indenture or in the Securities is intended to or shall impair, as between the issuer, its creditors other than the holders of Senior Indebtedness, and the Holders of the Securities, the obligation of the Company, which is absolute and unconditional, to pay to the Holders of the Securities the principal of and interest on the Securities as and when the same shall become due and payable in accordance with their terms, or is intended to or shall affect the relative rights against the Company of the Holders of the Securities and creditors of the Company other than the holders of Senior Indebtedness, nor shall anything herein or therein prevent the Holder of any Security or the Trustee on his behalf from exercising all remedies otherwise permitted by applicable law upon default under this Indenture, subject to the rights, if any, under this Article of the holders of Senior Indebtedness in respect of cash, property or securities of the Company received upon the exercise of any such remedy.

Upon any payment or distribution of assets of the Company referred to in this Article, the Trustee, subject to the provisions of Section 7.01 and Section 7.02, and the Holders of the Securities shall be entitled to rely upon any order or decree made by any court of competent jurisdiction in which such insolvency, bankruptcy, dissolution, winding-up, liquidation, arrangement or reorganization proceedings are pending, or a certificate of the receiver, trustee in bankruptcy, liquidating trustee, agent or other Person making such payment or distribution, delivered to the Trustee or to the Holders of the Securities, for the purpose of ascertaining the Persons entitled to participate in such distribution, the holders of the Senior Indebtedness and other indebtedness of the Company, the amount thereof or payable thereon, the amount or amounts paid or distributed thereon and all other facts pertinent thereto or to this Article.

Section 11.04. *Authorization by Securityholders*. Each Holder of a Security by his acceptance thereof authorizes the Trustee on his behalf to take such action as may be necessary or appropriate to effectuate the subordination provided in this Article and appoints the Trustee his attorney-in-fact for any and all such purposes.

Section 11.05. *Notice to Trustee*. The Company shall give prompt written notice to the Trustee and to any paying agent of any fact known to the Company which would prohibit the making of any payment of monies to or by the Trustee or any paying agent in respect of the Securities pursuant to the provisions of this Article. Regardless of anything to the contrary contained in this Article or elsewhere in this Indenture, the Trustee shall not be charged with knowledge of the existence of any Senior Indebtedness or of any default or event of default with respect to any Senior Indebtedness or of any other facts which would prohibit the making of any payment of monies to or by the Trustee in respect of the Securities, unless and until the Trustee shall have received notice in writing (which may be by telegram, telecopy or other similar writing) at its Corporate Trust Office to that effect signed by an officer of the Company, or by a holder or agent of a holder of Senior Indebtedness who shall have been certified by the Company or otherwise established to the reasonable satisfaction of the Trustee to be such holder or agent, or by the trustee under any indenture pursuant to which Senior Indebtedness shall be outstanding, and, prior to the receipt of any such written notice, the Trustee shall, subject to Section 7.01 and Section 7.02, be entitled to assume that no such facts exist; provided that if on a date at least two Business Days prior to the date upon which by the terms hereof any such monies shall become payable for any purpose (including, without limitation, the payment of the principal of or interest on any Security) the Trustee shall not have received with respect to such monies the notice provided for in this Section, then, regardless of anything herein to the contrary, the Trustee shall have full power and authority to receive such monies and to apply the same to the purpose for which they were received, and shall not be affected by any notice to the contrary which may be received by it on or after such prio

Regardless of anything to the contrary herein (but subject, in the case of clause (a) of this paragraph, to the second paragraph of Section 11.02), nothing shall prevent (a) any payment by the Company or the Trustee to the

Securityholders of amounts in connection with a redemption of Securities if (i) notice of such redemption has been given pursuant to Article 3 prior to the receipt by the Trustee of written notice as aforesaid, and (ii) such notice of redemption is given not earlier than 60 days before any redemption date, or (b) any payment by the Trustee to the Securityholders of amounts deposited with it pursuant to Section 8.01, provided, that, in the case of Section 8.05, the applicable Securities are deemed to have been paid and discharged, and in the case of Section 8.01, the Trustee shall not have received, by at least two Business Days prior to the date of execution of instruments acknowledging the satisfaction of and discharge of this Indenture with respect to the applicable Securities, the notice provided in the preceding paragraph.

Subject to Section 7.01 and Section 7.02, the Trustee shall be entitled to rely on the delivery to it of a written notice by a Person representing himself to be a holder of Senior Indebtedness (or a trustee on behalf of such holder) to establish that such notice has been given by a holder of Senior Indebtedness or a trustee on behalf of any such holder. In the event that the Trustee determines in good faith that further evidence is required with respect to the right of any Person as a holder of Senior Indebtedness to participate in any payment or distribution pursuant to this Article, the Trustee may request such Person to furnish evidence to the reasonable satisfaction of the Trustee as to the amount of Senior Indebtedness held by such Person, the extent to which such Person is entitled to participate in such payment or distribution and any other facts pertinent to the rights of such Person under this Article, and if such evidence is not furnished the Trustee may defer any payment to such Person pending judicial determination as to the right of such Person to receive such payment.

Section 11.06. *Trustee's Relation to Senior Indebtedness*. The Trustee and any agent of the Company or the Trustee shall be entitled to all the rights set forth in this Article with respect to any Senior Indebtedness which may at any time be held by it in its individual or any other capacity to the same extent as any other holder of Senior Indebtedness and nothing in the second paragraph of Section 2.02 or elsewhere in this Indenture shall deprive the Trustee or any such agent of any of its rights as such holder. Nothing in this Article shall apply to claims of, or payments to, the Trustee under or pursuant to Section 7.07.

With respect to the holders of Senior Indebtedness, the Trustee undertakes to perform or to observe only such of its covenants and obligations as are specifically set forth in this Article, and no implied covenants or obligations with respect to the holders of Senior Indebtedness shall be read into this Indenture against the Trustee. The Trustee shall not be deemed to owe any fiduciary duty to the holders of Senior Indebtedness and, subject to the provisions of Section 7.01 and Section 7.02, the Trustee shall not be liable to any holder of Senior Indebtedness if it shall in good faith pay over or deliver to Holders of Securities, the Company or any other Person monies or assets to which any holder of Senior Indebtedness shall be entitled by virtue of this Article or otherwise.

Section 11.07. *No Impairment of Subordination*. No right of any present or future holder of any Senior Indebtedness to enforce subordination as herein provided shall at any time in any way be prejudiced or impaired by any act or failure to act on the part of the Company or by any act or failure to act, in good faith, by any such holder, or by any noncompliance by the Company with the terms, provisions and covenants of this Indenture, regardless of any knowledge thereof which any such holder may have or otherwise be charged with.

SIGNATURES

IN WITNESS WHEREOF, the parties hereto have caused this Indenture to be duly executed,	, all as of	the date first written above.
		IED N.V. Company
	Ву:	Name: Title:
		Name: Title:
	[as the T] Crustee
	Ву:	Name: Title:
36		

To Affimed N.V. (the "Issuer") Im Neuenheimer Feld 582 0 D-69120 HEIDELBERG Germany

Date 1 October 2015 J.J.J. Schutte

Our ref. M24047594/1/20614365/jgk **Advocaat**

Dear Sir/Madam,

Registration with the US Securities and Exchange Commission of common shares in the capital of the Issuer

1 Introduction

I act as Dutch legal adviser (advocaat) to the Issuer in connection with the Registration.

Certain terms used in this opinion are defined in **Annex 1** (*Definitions*).

2 Dutch Law

This opinion is limited to Dutch law in effect on the date of this opinion. It (including all terms used in it) is to be construed in accordance with Dutch law.

3 Scope of Inquiry

I have examined, and relied upon the accuracy of the factual statements in, the following documents:

- **3.1** A copy of the Registration Statement.
- **3.2** A copy of:
 - (a) the Issuer's deed of incorporation, the Deed of Conversion and its articles of association as in force at the time of each issue of Existing Registration Shares, as provided by the Chamber of Commerce (*Kamer van Koophandel*);
 - (b) both Board Regulations;
 - (c) the Trade Register Extract; and
 - (d) the Shareholders Register.

3.3 A copy of:

- (a) the Board Certificate;
- (b) each Corporate Resolution;
- (c) each Issue Document;
- (d) the Follow on Notice of Option Exercise;
- (e) the Warrant Agreement; and
- (f) the Bank Statements.

In addition, I have examined such documents, and performed such other investigations, as I considered necessary for the purpose of this opinion. My examination has been limited to the text of the documents.

4 Assumptions

I have made the following assumptions:

4.1

- (a) Each copy document conforms to the original and each original is genuine and complete.
- (b) Each signature is the genuine signature of the individual concerned.

- (c) The Registration Statement has been or will have been filed with the SEC in the form referred to in this opinion.
- 4.2 All Existing Registration Shares have been validly accepted by the subscribers for them.

4.3

- (a) The Issuer's authorised share capital at the time of issue of the Warrant Registration Shares will be sufficient to allow for the issue.
- (b) The Warrant Registration Shares will have been:
 - (i) issued in the form and manner prescribed by the articles of association at the time of issue; and
 - (ii) otherwise offered, issued and accepted by their subscribers in accordance with all applicable laws (including, for the avoidance of doubt, Dutch law).
- (c) The nominal amount of the Warrant Registration Shares and any agreed share premium will have been validly paid in accordance with the Warrant Agreement.

4.4

(a)

- (i) The issue by the Issuer of the Other Future Registration Shares (or of any rights to acquire Other Future Registration Shares) will have been validly authorised; and
- (ii) any pre-emption rights in respect of the issue of the Other Future Registration Shares (or of any rights to acquire Other Future Registration Shares) will have been observed or validly excluded;

all in accordance with the Issuer's articles of association at the time of authorisation or of observance or exclusion.

- (b) The Issuer's authorised share capital at the time of issue of the Other Future Registration Shares will be sufficient to allow for the issue.
- (c) The Other Future Registration Shares will have been:

- (i) issued in the form and manner prescribed by the articles of association at the time of issue; and
- (ii) otherwise offered, issued and accepted by their subscribers in accordance with all applicable laws (including, for the avoidance of doubt, Dutch law).
- (d) The nominal amount of the Other Future Registration Shares and any agreed share premium will have been validly paid.

5 Opinion

Based on the documents and investigations referred to and assumptions made in paragraphs 3 and 4, I am of the following opinion:

- 5.1 The Existing Registration Shares have been validly issued, are fully paid and are nonassessable¹.
- **5.2** When issued, the Warrant Registration Shares and the Other Future Registration Shares will have been validly issued, fully paid and nonassessable 1.

6 Reliance

- 6.1 This opinion is an exhibit to the Registration Statement and may be relied upon by the purchasers of the Registration Shares for the purpose of their acquisition of the Registration Shares and not by any other person or for any other purpose. It may not be supplied, and its contents or existence may not be disclosed, to any person other than as an Exhibit to (and therefore together with) the Registration Statement.
- 6.2 Each person accepting this opinion agrees, in so accepting, that only De Brauw will have any liability in connection with this opinion, that the agreement in this paragraph 6.2 and all liability and other matters relating to this opinion will be governed exclusively by Dutch law and that the Dutch courts will have exclusive jurisdiction to settle any dispute relating to this opinion.
- **6.3** The Issuer may:
 - (a) file this opinion as an exhibit to the Registration Statement; and

¹ In this opinion, "nonassessable" – which term has no equivalent in Dutch – means, in relation to a share, that the issuer of the share has no right to require the holder of the share to pay to the issuer any amount (in addition to the amount required for the share to be fully paid) solely as a result of his shareholdership.

(b) refer to De Brauw giving this opinion under the heading "Legal Matters" in the prospectus included in the Registration Statement.

The previous sentence is no admittance from me (or De Brauw) that I am (or De Brauw is) in the category of persons whose consent for the filing and reference as set out in that sentence is required under section 7 of the Securities Act or any rules or regulations of the SEC promulgated under it.

Yours faithfully, De Brauw Blackstone Westbroek N.V.

/s/ J.J.J. Schutte J.J.J. Schutte

Annex 1 - Definitions

"Bank Statement" means each of the bank statements regarding foreign currency as referred to in section 2:93a BW, filed with the Chamber of Commerce on 29 September 2014, 18 May 2015 and 9 July 2015.

"Board Certificate" means the certificate dated the date of this opinion attached to this opinion as Annex 2.

"Board Regulation" means the Issuer's rules governing its management board, dated 17 September 2014 and the Issuer's rules governing its supervisory board, dated 17 September 2014.

"BW" means the Civil Code (Burgerlijk Wetboek).

"Corporate Resolution" means each of the General Shareholder Resolution, the IPO Corporate Resolutions, the Follow on Corporate Resolutions and the Warrant Corporate Resolutions.

"De Brauw" means De Brauw Blackstone Westbroek N.V.

"Deed of Conversion" means the deed of conversion and amendment of the articles of association dated 17 September 2014 providing for the conversion of the Issuer into a limited liability company and amendment of its articles association.

"Dutch law" means the law directly applicable in the Netherlands.

"Existing Registration Shares" means the 29,934,169 common shares, nominal value of EUR 0.01 each, in the Issuer's capital, issued pursuant to the Issue Documents (including, for the avoidance of doubt, the Reorganisation Shares).

"Follow on Corporate Resolutions" means each of the Follow on Managing Board Resolutions, the Follow on Pricing Committee Resolution, the Follow on Supervisory Board Resolution, and the Follow on Supervisory Board Minutes.

"Follow on Deed of Issue" means the deed of issue dated 12 May 2015 providing for the issue of 5,000,000 common shares ("Follow on Shares") with a nominal value of EUR 0.01 each.

"Follow on Managing Board Resolutions" means each of:

- (a) A written resolution by the Issuer's managing board dated 4 May 2015, to:
 - (i) publish the Follow on Registration Statement;
 - (ii) enter into the Follow on Underwriting Agreement;
 - (iii) establish a follow on pricing committee ("Follow on Pricing Committee") and authorise the pricing committee to (i) decide whether or not to proceed with the Follow on Offer, (ii) determine the number of Follow on Shares, (iii) determine the maximum number of Option Shares that can be issued, and (iv) set the issue price for the Follow on Shares, provided that the size of the Follow on Offer, while taking into account the aggregate number of the Follow on Shares and the Option Shares to be issued and the issue price per Follow on Share, does not exceed an amount of USD 40.25 million (the "Maximum authorisation"); and
 - (iv) determine that if the Issuer's managing board wishes to increase the amount of the Maximum Authorisation, the Issuer's managing board will adopt a resolution to that effect and request the Issuer's supervisory board for approval of such increase,

including a power of attorney granted to each of Adi Hoess, Florian Fischer, and Jens-Peter Marschner ("Follow on Managing Board Resolution A").

- (b) A written resolution by the Issuer's managing board dated 12 May 2015, to:
 - (i) resolve the issue of the Follow on Shares for a price of USD 6.7210 per Follow On Share to Cede & Co as nominee for the Depositary Trust Company, a limited purpose trust company organised under New York State banking law; and to exclude the pre-emption rights (*voorkeursrechten*) in respect thereof ("Follow on Managing Board Resolution B").
- (c) A written resolution by the Issuer's managing board dated 6 May 2015, to:

- (i) Resolve the increase in the Maximum Authorisation with an additional aggregate amount of USD 863,000, resulting in a maximum size of the Follow on Offer of USD 41,113,000 (the "Increase of the Maximum Authorisation").
- (ii) Request the Issuer's supervisory board for approval of the Increase of the Maximum Authorisation ("Follow on Managing Board Resolution C").

"Follow on Notice of Option Exercise" means the written notice dated 7 May 2015 from the underwriters to the Follow on Offer to the Issuer, where the underwriters exercise the option granted to them by the Issuer to purchase Option Shares, in accordance with the Follow on Underwriting Agreement.

"Follow on Option Deed of Issue" means the deed of issue dated 12 May 2015 providing for the issue of 750,000 common shares ("Option Shares") with a nominal value of EUR 0.01 each.

"Follow on Pricing Committee Resolution" means the written resolution of the Follow on Pricing Committee dated 6 May 2015, to (i) resolve to proceed with the Follow on Offer; (ii) determine the number of Follow on Shares to be issued; (iii) determine the maximum number of Option Shares that can be issued, and (iv) determine the issue price for the Follow on Shares.

"Follow on Supervisory Board Minutes" means the minutes of the meeting of the Issuer's supervisory board dated 6 May 2015, where the Issuer's supervisory board unanimously approves the Increase of the Maximum Authorisation, resolved upon by the Issuer's managing board in Follow on Managing Board Resolution A and Follow on Managing Board Resolution C.

"Follow on Supervisory Board Resolution" means a written resolution by the Issuer's supervisory board dated 12 May 2015, to approve all resolutions adopted by the Issuer's managing board in Follow on Managing Board Resolution A and Follow on Managing Board Resolution B.

"Follow on Underwriting Agreement" means the underwriting agreement dated 6 May 2015 between the Issuer and the underwriters named in it.

"General Shareholder Resolution" means a written resolution of the Issuer's general meeting of shareholders dated 12 September 2014, relating to the Reorganisation Deed of Issue and, among other things, authorising, with effect from 17 September 2014, the managing board, for a period of five years and subject to the approval of the supervisory board, to:

- (a) resolve to issue common shares and/or grant rights to subscribe for common shares in the share capital of the Issuer, up to the maximum number of common shares that can be issued under the authorised share capital of the Issuer as per the date of adoption of such resolution; and
- (b) to restrict or exclude the pre-emption rights (voorkeursrechten) in respect thereof.

"Incentive Shares Deed of Issue" means the deed of issue dated 26 June 2015 providing for the issue of 200,000 common shares ("Incentive Shares") with a nominal value of EUR 0.01 each.

"IPO" means the initial public offering of Affimed N.V.

"IPO Corporate Resolutions" means each of the IPO Managing Board Resolutions, the IPO Shareholder Resolutions and the IPO Pricing Committee Resolution.

"IPO Deed of Issue" means the deed of issue dated 17 September 2014 providing for the issue of 8,000,000 common shares ("IPO Shares") with a nominal value of EUR 0.01 each.

"IPO Managing Board Resolutions" means each of:

- (a) A written resolution by the Issuer's managing board dated 17 July 2014, to, among others:
 - (i) enter into the IPO Underwriting Agreement; and
 - (ii) appoint an IPO pricing committee ("**IPO Pricing Committee**") and request the IPO pricing committee to advise the Issuer's managing board on (i) the decision whether or not to proceed with the IPO, (ii) the number of IPO Shares to be issued and (iii) the issue price for the IPO Shares ("**IPO Managing Board Resolution A**")
- (b) A written resolution by the Issuer's managing board dated 12 September 2014, to:

- (i) resolve to proceed with the IPO;
- (ii) determine the number of IPO Shares to be issued; and
- (iii) determine the issue price for the IPO Shares.

"IPO Pricing Committee Resolution" means the written resolution of the IPO Pricing Committee dated 12 September 2014, to (i) advise the Issuer's managing board to resolve to proceed with the IPO, (ii) advise the Issuer's managing board on the number of IPO Shares to be issued and (iii) advise the Issuer's managing board on the issue price for the IPO Shares.

"IPO Shareholder Resolutions" means each of:

- (a) a written resolution of the Issuer's general meeting of shareholders dated 17 July 2014, to approve IPO Managing Board Resolution A;
- (b) a written resolution of the Issuer's general meeting of shareholders dating 12 September 2014 to:
 - (i) issue the Pre-existing Shares and to exclude all pre-emption rights (voorkeursrechten) in respect thereof;
 - (ii) enter into the Reorganisation Deed of Issue;
 - (iii) enter into the Deed of Conversion;
 - (iv) issue the IPO Shares under the condition of execution of the Deed of Conversion and to exclude all pre-emption rights (*voorkeursrechten*) in respect thereof; and
 - (v) grant the right to acquire the Incentive Shares under the condition of consummation of the IPO.

"IPO Underwriting Agreement" means the underwriting agreement dated 12 September 2014 between the Issuer and the underwriters named in it.

"Issue Document" means each of the following:

- (a) Reorganisation Deed of Issue;
- (b) IPO Deed of Issue;

- (c) Follow on Deed of Issue;
- (d) Follow on Option Deed of Issue; and
- (e) Incentive Shares Deed of Issue.

"Issuer" means Affimed N.V., with seat in Amsterdam.

"Other Future Registration Shares" means the common shares other than the Warrant Registration Shares, nominal value of EUR 0.01 each, in the Issuer's capital, issued after the date hereof, not exceeding the limitations referred to in the Registration Statement.

"Reorganisation Contribution Description" means the description as referred to in section 2:204b BW drawn up by the Issuer, dated 12 September 2014 and attached to the Reorganisation Deed of Issue.

"Reorganisation Deed of Issue" means the deed of issue dated 12 September 2014 providing for the issue of 15,984,168 common shares ("Reorganisation Shares") with a nominal value of EUR 0.01 each, and including the Reorganisation Contribution Description.

"Reorganisation Shares" is defined under Reorganisation Deed of Issue.

"Registration" means the registration of the Registration Shares with the SEC under the Securities Act.

"Registration Shares" means the Existing Registration Shares, the Warrant Registration Shares and the Other Future Registration Shares

"Registration Statement" means the registration statement on form F-3 to be filed with the SEC on the date hereof in relation to the Registration (excluding any documents incorporated by reference in it and any exhibits to it).

"SEC" means the U.S. Securities and Exchange Commission.

"Securities Act" means the U.S. Securities Act of 1933, as amended.

"the Netherlands" means the part of the Kingdom of the Netherlands located in Europe.

"Trade Register Extract" means a Trade Register extract relating to the Issuer provided by the Chamber of Commerce and dated 30 September 2015.

"Warrant Agreement" means the warrant agreement between the Issuer and Perceptive Credit Opportunities Fund, LP, dated 6 October 2014, granting Perceptive Credit Opportunities Fund, LP the right to subscribe for up to 106,250 common shares, nominal value of EUR 0.01 each, in the Issuer's capital.

"Warrant Corporate Resolutions" means the Warrant Management Board Resolution and the Warrant Supervisory Board Regulation.

"Warrant Management Board Regulations" means a written resolution by the Issuer's management board dated 6 October 2014, to:

- (a) enter into the Warrant Agreement;
- (b) issue the rights to subscribe 106,250 common shares in the share capital of the Issuer; and
- (c) exclude the pre-emption rights (voorkeursrechten) in respect thereof.

"Warrant Registration Shares" means up to 106,250 common shares, nominal value of EUR 0.01 each, in the Issuer's capital, issued upon exercise the right to subscribe for common shares under the Warrant Agreement.

"Warrant Supervisory Board Resolution" means a written resolution by the Issuer's supervisory board dated 6 October 2014, to approve:

- (a) entry into the Warrant Agreement and the related issue of rights to subscribe for 106,250 common shares; and
- (b) exclusion of the pre-emption rights (voorkeursrechten) in respect thereof.

BOARD CERTIFICATE

FROM THE MANAGING BOARD OF AFFIMED N.V.

DATED [•] SEPTEMBER 2015

THE UNDERSIGNED:

- 1. Adolf Hoess, born in Hausham, Germany, on 23 December 1961; and
- 2. Florian Heinz Martin Fischer, born in München, Germany, on 3 January 1968,
- 3. **Jens-Peter Marshner**, born in Zeulenroda, Germany, on 29 November 1962,

acting in their capacity as managing directors of **Affimed N.V.**, a limited liability company with corporate seat in Amsterdam, the Netherlands and having its principal office in Heidelberg, Germany (the "**Issuer**"),

BACKGROUND:

- (a) The Issuer intends to seek the Registration with the SEC of the Registration Shares.
- (b) In connection with the Registration, on the date of this Board Certificate, De Brauw Blackstone Westbroek N.V. intends to issue a legal opinion in the form attached to this certificate (the "**Legal Opinion**").
- (c) This Board Certificate is the "Board Certificate" as defined in the Legal Opinion.
- (d) The undersigned make the certifications in this Board Certificate after due and careful consideration and after having made all necessary enquiries.

1 Construction

- **1.1** Terms defined in the Legal Opinion have the same meaning in this Board Certificate.
- 1.2 In this Board Certificate "including" means "including without limitation".

2 CERTIFICATION:

Each undersigned certifies the following.

2.1 Authenticity

- (a) As at the date of this Board Certificate:
 - (i) all information regarding the Issuer registered or on file with the Dutch Trade Register; and
 - (ii) all information in the Shareholders Register;

is correct, complete and up to date.

(b) As at the date of the relevant Corporate Resolution, the relevant Board Regulations were in force.

2.2 Solvency

The Issuer is not subject to any bankruptcy proceedings, suspension of payments, emergency measures, other insolvency proceedings as defined in Article 2(a) of Council Regulation (EC) No 1346/2000 of 29 May 2000 on insolvency proceedings or other laws relating to or affecting the rights of creditors.

2.3 Issue Documentation Existing Registration Shares

- (a) Each Issue Document was within the capacity and powers of, and was validly authorised by, each party and as at the date of this Board Certificate remains in force without modification.
- (b) Each Corporate Resolution has been validly passed. As at the date of this Board Certificate, each Corporate Resolution and the Reorganisation Contribution Description remain in force without modification.
- (c) Each undersigned believes that each Corporate Resolution is reasonable and fair (including in relation to all the Issuer's shareholders).
- (d) No undersigned is aware of any fact or circumstances (including (i) any lack of capacity of any person, (ii) any conflict of interest, (iii) any force (bedreiging), fraud (bedrog), undue influence (misbruik van omstandigheden) or mistake (dwaling), and (iv) any amendment or supplement) which he understands or suspects has or may have the effect that any Corporate Resolution or Issue Document will or may cease to be in force without modification at any time.

2.4 Issues Existing Registration Shares

(a) At the time of each issue of Existing Registration Shares the difference between (i) the Issuer's authorised share capital, and (ii) its issued share capital, was sufficient to allow for the issue.

(b)

- (i) At the time when the contribution on the Reorganisation Shares was made (in accordance with the Reorganisation Deed of Issue), its value was no less than the amount to be paid on the Registration Shares.
- (ii) The contribution to be made on the Reorganisation Shares has been validly transferred to the Issuer (in accordance with the Reorganisation Deed of Issue).
- (c) At the time of each issue of Existing Registration Shares other than the Reorganisation Shares, the amounts to be paid on the relevant Existing Registration Shares have been paid in accordance with the relevant Issue Document.

2.5 General

No undersigned is aware of:

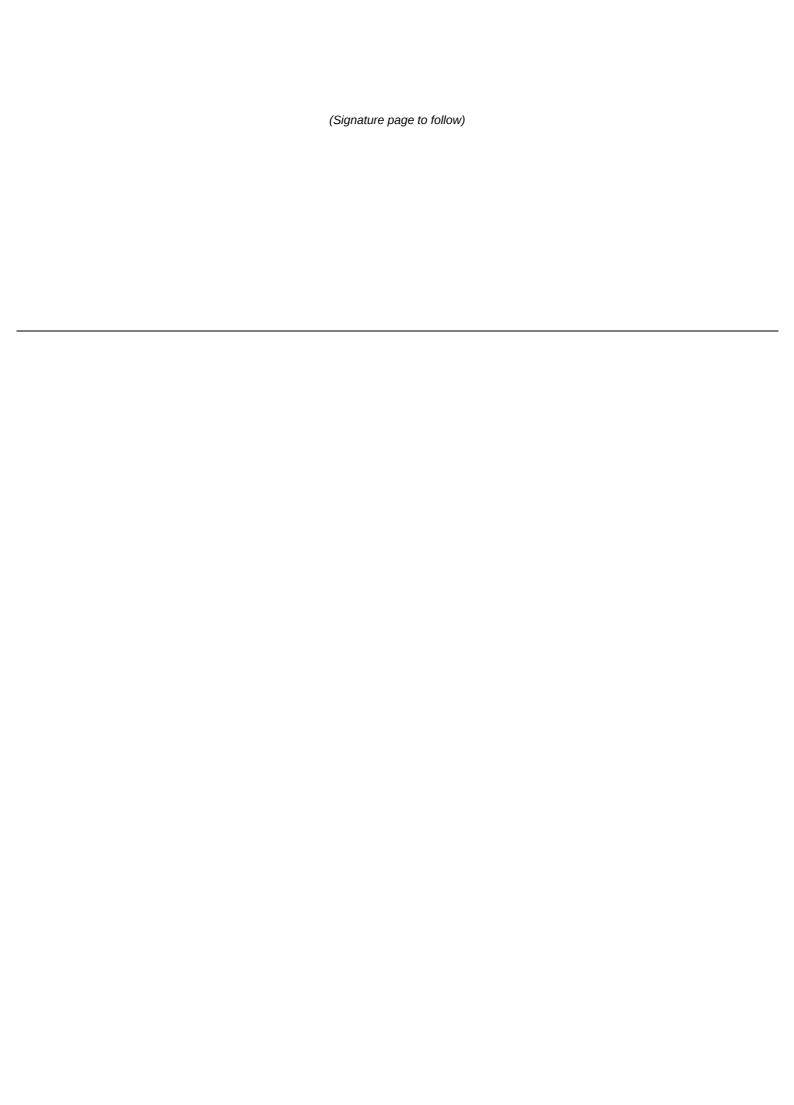
- (a) any claim (whether actual or threatened and including any claim, litigation, arbitration or administrative or regulatory proceedings) to the contrary of the certifications in this Board Certificate; or
- (b) any fact or circumstance which he or she understands or suspects has or might have any impact on the correctness of the Legal Opinion and which has not been disclosed to De Brauw in writing.

3 RELIANCE

De Brauw may rely on this Board Certificate (without personal liability for the undersigned).

4 IN EVIDENCE WHEREOF:

this Board Certificate was signed on in the manner set out below.



	/S/ Adolf Hoess		
Name: Title:	Adolf Hoess Chief Executive Officer		
	/S/ Florian Heinz Martin Fischer		
Name: Title:	Florian Heinz Martin Fischer Chief Financial Officer		
	/S/ Jens Peter Marschner		
Name: Title:	Jens-Peter Marshner		
	(Signature page to board certificate)		



Davis Polk & Wardwell LLP 450 Lexington Avenue New York, NY 10017 212 450 4000 tel 212 701 5800 fax Paris Madrid Tokyo Beijing Hong Kong

New York

Menlo Park

São Paulo

London

Washington DC

Exhibits 5.2 and 23.3

OPINION OF DAVIS POLK & WARDWELL LLP

October 1, 2015

Affimed N.V. Im Neuenheimer Feld 582 69120 Heidelberg Germany

Ladies and Gentlemen:

We have acted as special counsel for Affimed N.V., a Dutch public company with limited liability (naamloze vennootschap) (the "Company"), in connection with the Company's filing with the Securities and Exchange Commission of a Registration Statement on Form F-3 (the "Registration Statement") for the purpose of registering under the Securities Act of 1933, as amended (the "Securities Act"), (a) common shares, nominal value €0.01 per share (the "Common Shares") of the Company; (b) the Company's senior debt securities and subordinated debt securities (collectively, the "Debt Securities"), which may be issued pursuant to a senior debt indenture (the "Senior Indenture"), between the Company and the trustee to be named therein, as trustee (the "Senior Debt Trustee") and a subordinated debt indenture (the "Subordinated Indenture" and, together with the Senior Indenture, the "Indentures"), between the Company and the trustee to be named therein (the "Subordinated Debt Trustee" and, together with the Senior Debt Trustee, the "Trustees"); (c) warrants of the Company (the "Warrants"), which may be issued pursuant to a warrant agreement (the "Warrant Agreement") between the Company and the warrant agent to be named therein (the "Warrant Agent"); (d) purchase contracts (the "Purchase Contracts") which may be issued under one or more purchase contract agreements (each, a "Purchase Contract Agreement") to be entered into between the Company and the purchase contract agent to be named therein (the "Purchase Contract Agent"); and (e) units (the "Units") to be issued under one or more unit agreements to be entered into among the Company, a bank or trust company, as unit agent (the "Unit Agent"), and the holders from time to time of the Units (each such unit agreement, a "Unit Agreement").

We, as your counsel, have examined originals or copies of such documents, corporate records, certificates of public officials and other instruments as we have deemed necessary or advisable for the purpose of rendering this opinion.

In rendering the opinions expressed herein, we have, without independent inquiry or investigation, assumed that (i) all documents submitted to us as originals are authentic and

complete, (ii) all documents submitted to us as copies conform to authentic, complete originals, (iii) all documents filed as exhibits to the Registration Statement that have not been executed will conform to the forms thereof, (iv) all signatures on all documents that we reviewed are genuine, (v) all natural persons executing documents had and have the legal capacity to do so, (vi) all statements in certificates of public officials and officers of the Company that we reviewed were and are accurate and (vii) all representations made by the Company as to matters of fact in the documents that we reviewed were and are accurate.

Based upon the foregoing, and subject to the additional assumptions and qualifications set forth below, we advise you that, in our opinion:

- 1. When the applicable Indenture and any supplemental indenture to be entered into in connection with the issuance of any Debt Securities has been duly authorized, executed and delivered by the applicable Trustee and the Company; the specific terms of a particular series of Debt Securities have been duly authorized and established in accordance with such Indenture; and such Debt Securities have been duly authorized, executed, authenticated, issued and delivered in accordance with the Indenture and the applicable underwriting or other agreement against payment therefor, such Debt Securities will constitute valid and binding obligations of the Company, enforceable in accordance with their terms, subject to applicable bankruptcy, insolvency and similar laws affecting creditors' rights generally, concepts of reasonableness and equitable principles of general applicability, provided that we express no opinion as to (w) the enforceability of any waiver of rights under any usury or stay law, (x) the effect of fraudulent conveyance, fraudulent transfer or similar provision of applicable law on the conclusions expressed above, (y) the validity, legally binding effect or enforceability of any section of the applicable Indenture that requires or relates to adjustments to the conversion rate at a rate or in an amount that a court would determine in the circumstances under applicable law to be commercially unreasonable or a penalty or forfeiture or (z) the validity, legally binding effect or enforceability of any provision that permits holders to collect any portion of stated principal amount upon acceleration of the Debt Securities to the extent determined to constitute unearned interest.
- 2. When the Warrant Agreement to be entered into in connection with the issuance of any Warrants has been duly authorized, executed and delivered by the Warrant Agent and the Company; the specific terms of the Warrants have been duly authorized and established in accordance with the Warrant Agreement; and such Warrants have been duly authorized, executed, issued and delivered in accordance with the Warrant Agreement and the applicable underwriting or other agreement against payment therefor, such Warrants will constitute valid and binding obligations of the Company, enforceable in accordance with their terms, subject to applicable bankruptcy, insolvency and similar laws affecting creditors' rights generally, concepts of reasonableness and equitable principles of general applicability.
- 3. When the Purchase Contract Agreement to be entered into in connection with the issuance of any Purchase Contracts has been duly authorized, executed and delivered by the Purchase Contract Agent and the Company; the specific terms of

the Purchase Contracts have been duly authorized and established in accordance with the Purchase Contract Agreement; and such Purchase Contracts have been duly authorized, executed, issued and delivered in accordance with the Purchase Contract Agreement and the applicable underwriting or other agreement against payment therefor, such Purchase Contracts will constitute valid and binding obligations of the Company, enforceable in accordance with their terms, subject to applicable bankruptcy, insolvency and similar laws affecting creditors' rights generally, concepts of reasonableness and equitable principles of general applicability.

4. When the Unit Agreement to be entered into in connection with the issuance of any Units has been duly authorized, executed and delivered by the Unit Agent and the Company; the specific terms of the Units have been duly authorized and established in accordance with the Unit Agreement; and such Units have been duly authorized, executed, issued and delivered in accordance with the Unit Agreement and the applicable underwriting or other agreement against payment therefor, such Units will constitute valid and binding obligations of the Company, enforceable in accordance with their terms, subject to applicable bankruptcy, insolvency and similar laws affecting creditors' rights generally, concepts of reasonableness and equitable principles of general applicability.

In connection with the opinions expressed above, we have assumed that, at or prior to the time of the delivery of any such security, (i) the Supervisory Board of the Company, as required under Dutch law, shall have duly established the terms of such security (and that such security is governed by the laws of the State of New York) and duly authorized the issuance and sale of such security and such authorization shall not have been modified or rescinded; (ii) the Company is, and shall remain, validly existing as a corporation in good standing (to the extent such concept exists) under the laws of the Netherlands; (iii) the Registration Statement shall have been declared effective and such effectiveness shall not have been terminated or rescinded; (iv) the applicable Indenture, Debt Securities, Warrant Agreement, Purchase Contract Agreement and Unit Agreement are each valid, binding and enforceable agreements of each party thereto (other than as expressly covered above in respect of the Company); and (v) there shall not have occurred any change in law affecting the validity or enforceability of such security. We have also assumed that the execution, delivery and performance by the Company of any Debt Security whose terms are established subsequent to the date hereof (a) are within its corporate powers, (b) do not contravene, or constitute a default under, the articles of association or other constitutive documents of the Company, (c) require no action by or in respect of, or filing with, any governmental body, agency or official and (d) do not contravene, or constitute a default under public policy, any provision of applicable law or regulation or any judgment, injunction, order or decree or any agreement or other instrument binding upon the Company.

We are members of the Bar of the State of New York and the foregoing opinion is limited to the laws of the State of New York. Insofar as the foregoing opinion involves matters governed by the laws of the Netherlands, we have relied, without independent inquiry or investigation, on the opinion of De Brauw Blackstone Westbroek N.V. delivered to you today.

We hereby consent to the filing of this opinion as an exhibit to the Registration Statement referred to above and further consent to the reference to our name under the caption "Legal Matters" in the prospectus, which is a part of the Registration Statement. In giving this consent, we do not admit that we are in the category of persons whose consent is required under Section 7 of the Securities Act.

Very truly yours,

/s/ Davis Polk & Wardwell LLP

Consent of Independent Registered Public Accounting Firm

We consent to the use of our report incorporated by reference herein and to the reference to our firm under the heading "Experts" in the prospectus.

[s] KPMG AG Wirtschaftsprüfungsgesellschaft

Leipzig, Germany October 1, 2015