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**SECURITIES AND EXCHANGE COMMISSION**  
WASHINGTON, D.C. 20549

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**FORM 8-A**

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**FOR REGISTRATION OF CERTAIN CLASSES OF SECURITIES  
PURSUANT TO SECTION 12(b) OR 12(g) OF  
THE SECURITIES EXCHANGE ACT OF 1934**

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**AFFIMED THERAPEUTICS B.V.\***

(Exact Name of Registrant as Specified in Its Charter)

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**The Netherlands**  
(State of Incorporation or Organization)

**Not Applicable**  
(I.R.S. Employer Identification No.)

**Technologiepark, Im Neuenheimer Feld 582**  
**Heidelberg, Germany**  
(Address of Principal Executive Offices)

**69120**  
(Zip Code)

**Securities to be registered pursuant to Section 12(b) of the Act:**

**Title of Each Class**  
**to be so Registered**  
**Common shares, nominal value €0.01 per share**

**Name of Each Exchange on Which**  
**Each Class is to be Registered**  
**The NASDAQ Stock Market LLC**

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If this form relates to the registration of a class of securities pursuant to Section 12(b) of the Exchange Act and is effective pursuant to General Instruction A. (c), please check the following box.

If this form relates to the registration of a class of securities pursuant to Section 12(g) of the Exchange Act and is effective pursuant to General Instruction A. (d), please check the following box.

**Securities Act registration statement file number to which this form relates: 333-197097**  
(If applicable)

**Securities to be registered pursuant to Section 12(g) of the Act:**

**(Title of Class)**  
**N/A**

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\* We intend to convert the legal form of our company under Dutch law from a private company with limited liability (besloten vennootschap met beperkte aansprakelijkheid) to a public company with limited liability (naamloze vennootschap) and to change our name from Affimed Therapeutics B.V. to Affimed N.V. prior to the consummation of the offering contemplated in the prospectus included in our Registration Statement on Form F-1 (Registration No. 333-197097).

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**Item 1: Description of Registrant's Securities to be Registered**

The description under the heading "Description of Share Capital and Articles of Association" relating to the Registrant's common shares, nominal value €0.01 per share (the "Common Shares"), in the prospectus included in the Registrant's Registration Statement on Form F-1 (Registration No. 333-197097) originally filed with the Securities and Exchange Commission on June 27, 2014, as amended (the "Registration Statement"), is incorporated by reference herein. In addition, the description that will be included under the heading "Description of Share Capital and Articles of Association" relating to the Common Shares in the Registrant's final prospectus relating to the Registration Statement to be subsequently filed with the Securities and Exchange Commission pursuant to Rule 424(b) under the Securities Act of 1933, as amended, shall be incorporated by reference herein.

**Item 2: Exhibits**

Pursuant to the Instructions as to Exhibits with respect to Form 8-A, no exhibits are required to be filed because no other securities of the Registrant are registered on The NASDAQ Stock Market LLC and the securities registered hereby are not being registered pursuant to Section 12(g) of the Securities Exchange Act of 1934, as amended.

**SIGNATURE**

Pursuant to the requirements of Section 12 of the Securities Exchange Act of 1934, the Registrant has duly caused this registration statement to be signed on its behalf by the undersigned, thereto duly authorized.

Affimed Therapeutics B.V.

By: /s/ Adi Hoess

Name: Adi Hoess

Title: Chief Executive Officer

By: /s/ Florian Fischer

Name: Florian Fischer

Title: Chief Financial Officer

Date: September 10, 2014