Sensata Technologies Holding N.V. Form 8-A12B March 08, 2010

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, DC 20549

FORM 8-A

For Registration of Certain Classes of Securities

Pursuant to Section 12(b) or 12(g) of the

Securities Exchange Act of 1934

Sensata Technologies Holding N.V.

(EXACT NAME OF REGISTRANT AS SPECIFIED IN ITS CHARTER)

The Netherlands (State or other jurisdiction of incorporation)

Kolthofsingel 8, 7602 EM Almelo

The Netherlands

Not Applicable (IRS Employer Identification No.)

Not Applicable

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(Address of principal executive offices)

(Zip Code)

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

Title of Each Class

to be so Registered Ordinary Shares, par value 0.01 per share Name of Each Exchange on which

Each Class is to be Registered The New York Stock Exchange

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. x

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: 333-163335

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

None

(Title of Class)

Item 1. Description of Registrant s Securities to be Registered.

The description of the ordinary shares, par value 0.01 per share (the Ordinary Shares), of Sensata Technologies Holding N.V. (the Company), as included under the caption Description of Ordinary Shares in the Prospectus forming a part of the Registration Statement on Form S-1, as originally filed with the Securities and Exchange Commission (the Commission) on November 25, 2009 (Registration No. 333-163335), including exhibits, and as may be subsequently amended from time to time (the Registration Statement), is hereby incorporated by reference. In addition, all of the above-referenced descriptions included in any Prospectus relating to the Registration Statement filed with the Commission pursuant to Rule 424(b) under the Securities Act of 1933, as amended, shall be deemed to be incorporated by reference herein. Capitalized terms used herein and not otherwise defined shall have the meanings assigned to them in the Registration Statement.

Item 2. Exhibits.

Pursuant to the Instructions as to Exhibits for Form 8-A, no exhibits are required to be filed, because no other securities of the Company are registered on The New York Stock Exchange 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.

Date: March 8, 2010

Sensata Technologies Holding N.V. (Registrant)

By: Name: Title: /s/ JEFFREY COTE Jeffrey Cote Chief Financial Officer

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