

Creighton Christine Frances
 Form 3
 July 22, 2011

FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

OMB APPROVAL

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INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,
 Section 17(a) of the Public Utility Holding Company Act of 1935 or Section
 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

| | | | | | | |
|---|---------|----------|--------------------------------------|--|---|--|
| 1. Name and Address of Reporting Person * | | | 2. Date of Event Requiring Statement | | 3. Issuer Name and Ticker or Trading Symbol | |
| Â Creighton Christine Frances | | | (Month/Day/Year) | | Sensata Technologies Holding N.V. [ST] | |
| (Last) | (First) | (Middle) | 07/12/2011 | | 4. Relationship of Reporting Person(s) to Issuer | |
| C/O 529 PLEASANT STREET, MS B-7 | | | | | 5. If Amendment, Date Original Filed(Month/Day/Year) | |
| (Street) | | | | | (Check all applicable) | |
| ATTLEBORO,Â MAÂ 02703 | | | | | 6. Individual or Joint/Group Filing(Check Applicable Line) | |
| (City) | (State) | (Zip) | | | <input type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer <input type="checkbox"/> Other (give title below) (specify below) Chief Accounting Officer | |
| | | | | | <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person | |

Table I - Non-Derivative Securities Beneficially Owned

| 1. Title of Security (Instr. 4) | 2. Amount of Securities Beneficially Owned (Instr. 4) | 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 4. Nature of Indirect Beneficial Ownership (Instr. 5) |
|---|--|---|--|
| Ordinary Shares, par value EUR 0.01 per share | 6,000 ⁽¹⁾ | D | Â |

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

SEC 1473 (7-02)

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Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security (Instr. 4) | 2. Date Exercisable and Expiration Date (Month/Day/Year) | 3. Title and Amount of Securities Underlying Derivative Security (Instr. 4) | 4. Conversion or Exercise Price of Derivative | 5. Ownership Form of Derivative Security: | 6. Nature of Indirect Beneficial Ownership (Instr. 5) |
|---|---|--|---|---|--|
|---|---|--|---|---|--|

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| | Date Exercisable | Expiration Date | Title | Amount or Number of Shares | Security | Direct (D) or Indirect (I) (Instr. 5) | |
|----------------------|------------------|-----------------|---|----------------------------|----------|---------------------------------------|---|
| Stock Options to Buy | Â (2) | 11/12/2018 | Ordinary Shares, par value EUR 0.01 per share | 30,000 | \$ 11.38 | D | Â |
| Stock Options to Buy | Â (3) | 09/21/2020 | Ordinary Shares, par value EUR 0.01 per share | 20,700 | \$ 18.88 | D | Â |
| Stock Options to Buy | Â (4) | 04/01/2021 | Ordinary Shares, par value EUR 0.01 per share | 13,600 | \$ 35.01 | D | Â |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|---|---------------|-----------|----------------------------|-------|
| | Director | 10% Owner | Officer | Other |
| Creighton Christine Frances C/O 529 PLEASANT STREET, MS B-7 ATTLEBORO, MA 02703 | Â | Â | Â Chief Accounting Officer | Â |

Signatures

/s/ Christine F. Creighton 07/22/2011

Signature of Reporting Person Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 5(b)(v).
 - ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) Consists of 3,600 and 2,400 unvested restricted ordinary shares granted to the reporting person on September 21, 2010 and April 1, 2011, respectively. The restricted ordinary shares will vest on September 21, 2013 and April 1, 2014, respectively, based on the issuer's satisfaction of certain performance criteria.
- (2) Consists of options granted to the reporting person on November 12, 2008. These options vest as follows: 40% on the second anniversary of the date of grant and 20% upon each of the third, fourth and fifth anniversaries of the date of grant. 12,000 of these options have vested.
- (3) Consists of options granted to the reporting person on September 21, 2010. These options vest as follows: 25% on each of the first, second, third, and fourth anniversaries of the date of grant. None of these options have vested.
- (4) Consists of options granted to the reporting person on April 1, 2011. These options vest as follows: 25% on each of the first, second, third, and fourth anniversaries of the date of grant. None of these options have vested.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, See Instruction 6 for procedure.

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