Hureau Robert Paul Form 3 March 10, 2010

FORM 3

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

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF

OMB APPROVAL

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SECURITIESFiled 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 2. Date of Event Requiring 3. Issuer Name and Ticker or Trading Symbol Person * Statement Sensata Technologies Holding N.V. [ST] À Hureau Robert Paul (Month/Day/Year) 03/10/2010 (Last) (First) (Middle) 4. Relationship of Reporting 5. If Amendment, Date Original Person(s) to Issuer Filed(Month/Day/Year) C/O SENSATA (Check all applicable) TECHNOLOGIES, INC., Â 529 PLEASANT STREET 10% Owner Director (Street) _X__ Officer Other 6. Individual or Joint/Group (give title below) (specify below) Filing(Check Applicable Line) Chief Accounting Officer _X_ Form filed by One Reporting Person ATTLEBORO, MAÂ 02703 Form filed by More than One Reporting Person (City) (State) (Zip) Table I - Non-Derivative Securities Beneficially Owned 1. Title of Security 2. Amount of Securities 3. 4. Nature of Indirect Beneficial Beneficially Owned Ownership (Instr. 4) Ownership (Instr. 4) Form: (Instr. 5) Direct (D) or Indirect (I) (Instr. 5) Ordinary Shares, par value EUR 0.01 per 37,100 (1) Â D share Reminder: Report on a separate line for each class of securities beneficially SEC 1473 (7-02) owned directly or indirectly. Persons who respond to the collection of

information contained in this form are not required to respond unless the form displays a

currently valid OMB control number.

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

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

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	Date Exercisable	Expiration Date	(Instr. 4) Title	Amount or Number of Shares	Price of Derivative Security	Derivative Security: Direct (D) or Indirect (I) (Instr. 5)	
Stock Options to Buy	(2)	03/28/2017	Ordinary Shares	125,323 (2)	\$ 7.3	D	Â
Stock Options to Buy	(3)	09/04/2019	Ordinary Shares	100,000 (3)	\$ 14.8	D	Â

Reporting Owners

Reporting Owner Name / Address	Relationships				
coporting of the common common	Director	10% Owner	Officer	Other	
Hureau Robert Paul C/O SENSATA TECHNOLOGIES, INC. 529 PLEASANT STREET ATTLEBORO, MA 02703	Â	Â	Chief Accounting Officer	Â	

Signatures

/s/ Robert Paul
Hureau

**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 unvested restricted ordinary shares granted to the reporting person on December 9, 2009. The restricted ordinary shares vest in five equal annual installments beginning one year from the date of grant.
 - Consists of 41,774 Tranche I options and 83,549 Tranche II options granted to the reporting person on March 28, 2007. The Tranche I options vest as follows: 40% upon the second anniversary of the date of grant and 20% upon each of the third, fourth and fifth
- (2) anniversaries of the date of grant. Vesting of Tranche II options is conditioned upon the achievement of a performance target at which time they become subject to time vesting in the same manner as the Tranche I options. 16,710 of the Tranche I options have vested; no Tranche II options have vested.
- (3) Consists of Tranche I options granted to the reporting person on September 4, 2009. The Tranche I options vest in five equal annual installments beginning one year from the date of grant.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *See* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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