

Miles Patrick
Form 4
May 24, 2007

FORM 4

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

OMB APPROVAL
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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN 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 * MILES PATRICK
2. Issuer Name and Ticker or Trading Symbol: NUVASIVE INC [NUVA]
3. Date of Earliest Transaction: 05/22/2007
4. If Amendment, Date Original Filed:
5. Relationship of Reporting Person(s) to Issuer: (Check all applicable) EVP, Marketing and Development
6. Individual or Joint/Group Filing: Form filed by More than One Reporting Person

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

Table with 7 columns: 1. Title of Security, 2. Transaction Date, 2A. Deemed Execution Date, 3. Transaction Code, 4. Securities Acquired (A) or Disposed of (D), 5. Amount of Securities Beneficially Owned, 6. Ownership Form, 7. Nature of Ownership. Includes rows for Common Stock transactions on 05/22/2007.

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

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number.

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

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative Securities (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Amount or Number of Shares
Stock Option (Right to Buy)	\$ 3.75	05/22/2007		M	4,241	⁽⁴⁾ 01/02/2014	Common Stock	4,241

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Miles Patrick 4545 TOWNE CENTRE COURT SAN DIEGO, CA 92121			EVP, Marketing and Development	

Signatures

/s/ Jason Hannon,
Attorney-in-fact
05/24/2007

**Signature of Reporting Person Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 4(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) The shares sold were acquired contemporaneously upon the cashless exercise of a stock option at an exercise price of \$3.75 per share.
- (2) The sale reported on this Form 4 was effected pursuant to a Rule 10b5-1 trading plan adopted by the Reporting Person on September 14, 2006.
- (3) Includes 1,286 shares acquired under the Issuer's employee stock purchase plan on April 30, 2007.
- (4) This option is immediately exercisable, but shares purchased under this option are subject to repurchase by the Issuer at the option exercise price to the extent the Reporting Person has not vested in such shares as of the date of the Reporting Person's termination of service to the Issuer. 25% of the total shares subject to the option vested on January 2, 2005, which was the first anniversary of the date of grant; the remaining shares vest in 36 equal monthly installments thereafter.

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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