

Rydin Jeffrey P
 Form 4
 September 28, 2009

FORM 4 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
 Washington, D.C. 20549

OMB APPROVAL

OMB Number: 3235-0287
 Expires: January 31, 2005
 Estimated average burden hours per response... 0.5

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 *
 Rydin Jeffrey P

2. Issuer Name and Ticker or Trading Symbol
 NUVASIVE INC [NUVA]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)
 7475 LUSK BLVD.
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)
 09/24/2009

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
 Senior V.P., U.S. Sales

SAN DIEGO, CA 92121

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

(City) (State) (Zip)

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

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|---|
| | | | Code | V | Amount or Price | | |
| Common Stock | 09/24/2009 | | M | | 1,396 A \$ 17.91 | 3,310 | D |
| Common Stock | 09/24/2009 | | F ⁽¹⁾ | | 640 D \$ 39.09 | 2,670 | D |
| Common Stock ⁽²⁾ | 09/25/2009 | | S ⁽³⁾ | | 756 D \$ 39.1314 | 1,914 | D |
| Common Stock | 09/24/2009 | | M | | 1,604 A \$ 23.24 | 3,518 | D |
| Common Stock | 09/24/2009 | | F ⁽⁴⁾ | | 954 D \$ 39.09 | 2,564 | D |

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Common Stock ⁽²⁾ 09/25/2009 S⁽³⁾ 650 D \$ 39.1314 1,914 D

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

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SEC 1474
(9-02)

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 Acquired (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) | \$ 17.91 | 09/24/2009 | | M | 1,396 | ⁽⁵⁾ 12/05/2015 | Common Stock | 1,396 |
| Stock Option (Right to Buy) | \$ 23.24 | 09/24/2009 | | M | 1,604 | ⁽⁶⁾ 01/16/2017 | Common Stock | 1,604 |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|---|---------------|-----------|-------------------------|-------|
| | Director | 10% Owner | Officer | Other |
| Rydin Jeffrey P 7475 LUSK BLVD. SAN DIEGO, CA 92121 | | | Senior V.P., U.S. Sales | |

Signatures

/s/ Jason Hannon, 09/28/2009
Attorney-in-fact

 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) Shares withheld at the election of the Reporting Person to satisfy payment of the option exercise price in connection with an exercise of a stock option granted in December 2005.
 - (2) The shares sold were acquired upon the net exercise of a stock option.
 - (3) The sales reported on this Form 4 were effected pursuant to Rule 10b5-1 trading plans adopted by the Reporting Person on September 11, 2008.
 - (4) Shares withheld at the election of the Reporting Person to satisfy payment of the option exercise price in connection with an exercise of a stock option granted in January 2007.
 - (5) 25% of the total shares subject to the option vested on December 5, 2006, which was the first anniversary of the date of grant; the remaining shares vest in 36 equal monthly installments thereafter.
 - (6) 25% of the total shares subject to the option vested on January 16, 2008, 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. 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.