HOWE LESLEY H Form 4 May 21, 2007

FORM 4

Check this box

if no longer

Section 16.

Form 4 or

subject to

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

OMB Number:

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Form 5 obligations may continue. See Instruction

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

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * HOWE LESLEY H

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to

Issuer

NUVASIVE INC [NUVA]

(Last) (First) 3. Date of Earliest Transaction

(Check all applicable)

(Street)

(Middle)

(Month/Day/Year) 05/17/2007

_X__ Director 10% Owner Officer (give title Other (specify below)

4545 TOWNE CENTRE COURT

4. If Amendment, Date Original

6. Individual or Joint/Group Filing(Check

Applicable Line)

X Form filed by One Reporting Person Form filed by More than One Reporting

Filed(Month/Day/Year)

Person

SAN DIEGO, CA 92121

(City)	(State)	(Zip) Tabl	le I - Non-D	Derivative	Secui	rities Acq	uired, Disposed o	f, or Beneficial	ly 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 on(A) or Disposed of (D) (Instr. 3, 4 and 5) (A) or		5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
Common			Code V	Amount		Price \$	(Instr. 3 and 4)		
Stock	05/17/2007		M	5,000	A	10.75	8,000	D	
Common Stock (1)	05/17/2007		S	5,000	D	\$ 25.42	3,000	D	
Common Stock	05/17/2007		M	6,000	A	\$ 10.08	9,000	D	
Common Stock (3)	05/17/2007		S	5,500	D	\$ 25.42	3,500	D	
Common Stock (3)	05/17/2007		S	500	D	\$ 25.46	3,000	D	

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Reminder: Report on a separate line for each class of securities beneficially 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.

SEC 1474 (9-02)

D

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

Der Sec	Fitle of ivative urity etr. 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. Transactic Code (Instr. 8)	onof Derivative Securities		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)	
					Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
_	tion ght to	\$ 10.75	05/17/2007		M		5,000	<u>(2)</u>	02/26/2014	Common Stock	5,000
•	tion ght to	\$ 10.08	12/28/2006		M		6,000	01/03/2005	01/03/2005	Common Stock	6,000

Reporting Owners

Reporting Owner Name / Address	Relationships						
	Director	10% Owner	Officer	Other			
HOWE LESLEY H 4545 TOWNE CENTRE COURT SAN DIEGO, CA 92121	X						

Signatures

/s/ Jason Hannon, Attorney-in-fact 05/21/2007

**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 \$10.75 per share.

Reporting Owners 2

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- The option is immediately exercisable, but shares purchased upon exercise of such option are subject to repurchase by the Issuer at the option exercise price in the event the Reporting Person's services to the Issuer terminate prior to the date the shares vest. The total shares subject to the option vest monthly over four years starting from the grant date of February 26, 2004.
- (3) The shares sold were acquired contemporaneously upon the cashless exercise of a stock option at an exercise price of \$10.08 per share. 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.