

SECURITIES AND EXCHANGE COMMISSION

FORM 4

Statement of changes in beneficial ownership of securities

Filing Date: **2005-05-02** | Period of Report: **2005-04-29**

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ISSUER

NUVASIVE INC

CIK: **1142596** | IRS No.: **330768598** | State of Incorporation: **DE**
SIC: **3841** Surgical & medical instruments & apparatus

Mailing Address

4545 TOWNE CENTRE COURT
SAN DIEGO CA 92121

Business Address

4545 TOWNE CENTRE COURT
SAN DIEGO CA 92121
(858) 909-1800

REPORTING OWNER

KPCB VIII ASSOCIATES LP

CIK: **1242719** | State of Incorporation: **CA** | Fiscal Year End: **1231**
Type: **4** | Act: **34** | File No.: **000-50744** | Film No.: **05792169**

Mailing Address

2750 DANS HILL ROAD
MENLO PARK CA 94025

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

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. Name and Address of Reporting Person KPCB VIII ASSOCIATES LP			2. Issuer Name and Ticker or Trading Symbol NUVASIVE INC [NUVA]			5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner <input type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below)		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 04/29/2005					
2750 SAND HILL ROAD			4. If Amendment, Date Original Filed(Month/Day/Year)			6. Individual or Joint/Group Filing (Check applicable line) <input checked="" type="checkbox"/> Form Filed by One Reporting Person <input type="checkbox"/> Form Filed by More than One Reporting Person		
(Street) MENLO PARK, CA 94025								
(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	(A) or (D)	Price			
Common Stock	04/29/2005		J		555,777	D	\$ 0	1,110,841	I	By "KPCB VIII" (L)
Common Stock	04/29/2005		J		32,223	D	\$ 0	64,404	I	By "KPCB VIII FF" (L)

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 Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V		(A)	(D)					

Explanation of Responses:

1. KPCB VIII Associates, L.P., a CA limited partnership ("KPCB VIII Associates") is the general partner of Kleiner Perkins Caufield & Byers VIII, L.P., a CA limited partnership ("KPCB VIII") and KPCB VIII Founders Fund L.P., a CA limited partnership ("KPCB VIII FF"). KPCB VIII Associates

disclaims beneficial ownership of the shares of the Issuer's common stock held directly by KPCB VIII and KPCB VIII FF, except to the extent of any indirect pecuniary interest in his distributive share therein.

Signatures

Susan Biglieri, Attorney-in-Fact

** Signature of Reporting Person

05/02/2005

Date

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

* 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).

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

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 Number.