NUVASIVE INC Form SC 13G/A February 14, 2006

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13G

OMB APPROVAL OMB Number: 3235-0145

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(Rule 13d-102)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO RULES 13d-1(b) AND (c) AND AMENDMENTS THERETO FILED PURSUANT TO 13d-2(b) (1)

Under the Securities Exchange Act of 1934 (Amendment No. 1)

NuVasive, Inc.

(Name of Issuer)

Common Stock

(Title of Class of Securities)

670704105

(CUSIP Number)

December 31, 2005

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- o Rule 13d-1(b)
- o Rule 13d-1(c)
- ý Rule 13d-1(d)
- (1) The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

CUSIP No. 670704105

1. Names of Reporting Persons. I.R.S. Identification Nos. of above persons (entities only) Kleiner Perkins Caufield & Byers VIII, L.P., a California limited partnership (KPCB VIII) 77-0431351 2. Check the Appropriate Box if a Member of a Group (See Instructions) (b) ý 3. SEC Use Only 4. Citizenship or Place of Organization California limited partnership 5. Sole Voting Power Number of Shares 6. Shared Voting Power Beneficially 1,110,841 Owned by Each 7. Sole Dispositive Power Reporting Person With 8. Shared Dispositive Power 1,110,841 9. Aggregate Amount Beneficially Owned by Each Reporting Person 1,110,841 10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) o 11. Percent of Class Represented by Amount in Row (9) 4.5% 12. Type of Reporting Person (See Instructions)

1. Names of Reporting Persons. I.R.S. Identification Nos. of above persons (entities only) KPCB VIII Associates, L.P., a California limited partnership (KPCB VIII Associates) 94-3240818 2. Check the Appropriate Box if a Member of a Group (See Instructions) (b) ý 3. SEC Use Only 4. Citizenship or Place of Organization California limited partnership 5. Sole Voting Power 6. Shared Voting Power 1,175,245 shares, of which 1,110,841 shares are directly held Number of by KPCB VIII and 64,404 shares are directly held by KPCB Shares VIII Founders Fund. KPCB VIII Associates is the general Beneficially partner of KPCB VIII and KPCB VIII-Founders Fund. Owned by Each 7. Sole Dispositive Power Reporting Person With 8. Shared Dispositive Power 1,175,245 shares, of which 1,110,841 shares are directly held by KPCB VIII and 64,404 shares are directly held by KPCB VIII Founders Fund. KPCB VIII Associates is the general partner of KPCB VIII and KPCB VIII-Founders Fund. 9. Aggregate Amount Beneficially Owned by Each Reporting Person 1,175,245 10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) o 11. Percent of Class Represented by Amount in Row (9) 4.7% Type of Reporting Person (See Instructions) 12. PN 3

CUSIP No. 670704105

0.3%

IN

Type of Reporting Person (See Instructions)

12.

1. Names of Reporting Persons. I.R.S. Identification Nos. of above persons (entities only) Joseph Lacob 2. Check the Appropriate Box if a Member of a Group (See Instructions) ý (b) 3. SEC Use Only 4. Citizenship or Place of Organization United States Citizen 5. Sole Voting Power 73,442 Number of Shares Shared Voting Power 6. Beneficially Owned by Each 7. Sole Dispositive Power Reporting 73,442 Person With 8. Shared Dispositive Power 9. Aggregate Amount Beneficially Owned by Each Reporting Person 73,442 10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) o 11. Percent of Class Represented by Amount in Row (9)

Item 1.	(a)	Name of Issuer			
Item 2.	(b)	NuVasive Inc. Address of Issuer s Principal	Executive Offices		
		4545 Towne Centre Court			
		San Diego, CA 92121			
	(a)	Name of Person Filing			
		Kleiner Perkins Caufield & Byers VIII, L.P., a California limited partnership			
		KPCB VIII Associates, L.P., a California limited partnership			
	(b)	Joseph Lacob Address of Principal Business Office or, if none, Residence			
		c/o Kleiner Perkins Caufield & Byers			
	(c)	2750 Sand Hill Road, Menlo Park, California 94025 Citizenship			
	(d)	The entities listed in 2(a) are California limited partnerships. The individual listed in 2(a) is a United States citizen. Title of Class of Securities			
	(e)	Common Stock CUSIP Number			
		670704105			
Item 3.	If this statement is filed pursuant to §§240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:				
	(a)	0	Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o).		
	(b)	0	Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c). Insurance company as defined in section 3(a)(19) of the Act (15		
	(c)	0	U.S.C. 78c).		
	(d)	0	Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C 80a-8).		
	(e)	0	An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E);		
	(f)	0	An employee benefit plan or endowment fund in accordance with \$240.13d-1(b)(1)(ii)(F);		
	(g)	0	A parent holding company or control person in accordance with § 240.13d-1(b)(1)(ii)(G);		
	(h)	0	A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);		

(i) O A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of

1940 (15 U.S.C. 80a-3);

(j) o Group, in accordance with §240.13d-1(b)(1)(ii)(J).

Not applicable.

Item 4.	Ownership				
Provide the follow	See rows 5-11 of coing information regard		percentage of the class of securities of the issuer identified in Item 1.		
	(b)	Percent of class:			
	(c)	Number of shares as to which the person has:			
		(i)	Sole power to vote or to direct the vote		
		(ii)	Shared power to vote or to direct the vote		
		(iii)	Sole power to dispose or to direct the disposition of		
		(iv)	Shared power to dispose or to direct the disposition of		
			the reporting person has ceased to be the beneficial owner of more than		
Item 6. Not Applicable.	Ownership of More than Five Percent on Behalf of Another Person				
Item 7. Not Applicable.	Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company or Control Person				
Item 8. Not Applicable.	Identification and Classification of Members of the Group				
Item 9. Not Applicable.	Notice of Dissolution of Group				
Item 10. Not Applicable.	Certification				
		[The remainder of this page	ge intentionally left blank.]		

SIGNATURES

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: February 14, 2006

KPCB VIII ASSOCIATES, L.P., A CALIFORNIA LIMITED PARTNERSHIP

Signature /s/ Brook H. Byers

Brook H. Byers, A General Partner

KLEINER PERKINS CAUFIELD & BYERS VIII, L.P., A CALIFORNIA LIMITED PARTNERSHIP

By: KPCB VIII Associates, L.P., a California

Limited Partnership, its General Partner

Signature /s/ Brook H. Byers

Brook H. Byers, A General Partner

EXHIBIT INDEX

Found on Sequentially Numbered Page

Exhibit Exhibit A: Agreement of Joint Filing

EXHIBIT A

Agreement of Joint Filing

The undersigned hereby agree that they are filing jointly pursuant to Rule 13d 1 of the Act the statement dated December 31, 2005 containing the information required by Schedule 13G, for the securities of NuVasive Incorporated, held by Kleiner Perkins Caufield & Byers VIII, L.P., a California limited partnership, and with respect to its general partner, such other holdings as may be reported therein.

Date: February 14, 2006

KPCB VIII ASSOCIATES, L.P., A CALIFORNIA LIMITED PARTNERSHIP

Signature /s/ Brook H. Byers

Brook H. Byers, A General Partner

KLEINER PERKINS CAUFIELD & BYERS VIII, L.P., A CALIFORNIA LIMITED PARTNERSHIP

By: KPCB VIII Associates, L.P., a California

Limited Partnership, its General Partner

Signature /s/ Brook H. Byers

Brook H. Byers, A General Partner