

OMB APPROVAL	
OMB Number:	3235-0104
Estimated average burden hours per response:	0.5

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* <u>ENTERPRISE MANAGEMENT PARTNERS IV LP</u> (Last) (First) (Middle) 2223 AVENIDA DE LA PLAYA, SUITE 300 (Street) LA JOLLA CA 92037 (City) (State) (Zip)	2. Date of Event Requiring Statement (Month/Day/Year) 05/12/2004	3. Issuer Name and Ticker or Trading Symbol <u>NUVASIVE INC [NUVA]</u>	
		4. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director <input checked="" type="checkbox"/> 10% Owner Officer (give title below) Other (specify below)	5. If Amendment, Date of 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

Table I - Non-Derivative Securities Beneficially Owned

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
Common Stock	7,360	I	See footnotes ⁽¹⁾⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾⁽⁶⁾
Common Stock	640	I	See footnotes ⁽¹⁾⁽⁷⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾⁽²⁴⁾
Series A Preferred Stock ⁽¹²⁾	2,070,000	I	See footnotes ⁽¹⁾⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾⁽⁶⁾
Series A Preferred Stock ⁽¹²⁾	180,000	I	See footnotes ⁽¹⁾⁽⁷⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾
Series B Preferred Stock ⁽¹²⁾	1,003,637	I	See footnotes ⁽¹⁾⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾⁽⁶⁾
Series B Preferred Stock ⁽¹²⁾	87,272	I	See footnotes ⁽¹⁾⁽⁷⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾
Series C Preferred Stock ⁽¹²⁾	346,769	I	See footnotes ⁽¹⁾⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾⁽⁶⁾
Series C Preferred Stock ⁽¹²⁾	30,154	I	See footnotes ⁽¹⁾⁽⁷⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾
Series D Preferred Stock ⁽¹²⁾	819,435	I	See footnotes ⁽¹⁾⁽¹³⁾⁽¹⁴⁾⁽¹⁵⁾⁽¹⁶⁾⁽¹⁷⁾
Series D Preferred Stock ⁽¹²⁾	168,708	I	See footnotes ⁽¹⁾⁽¹⁸⁾⁽¹⁹⁾⁽²⁰⁾⁽²¹⁾⁽²²⁾
Series D-1 Preferred Stock ⁽¹²⁾	98,333	I	See footnotes ⁽¹⁾⁽¹³⁾⁽¹⁴⁾⁽¹⁵⁾⁽¹⁶⁾⁽¹⁷⁾
Series D-1 Preferred Stock ⁽¹²⁾	20,245	I	See footnotes ⁽¹⁾⁽¹⁸⁾⁽¹⁹⁾⁽²⁰⁾⁽²¹⁾⁽²²⁾

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

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of Derivative Security	5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			
Warrant (Right to Purchase Series B Preferred Stock) ⁽¹²⁾⁽²³⁾	10/13/1999	10/13/2004	Series B Preferred Stock	40,362	2.75	I	See footnotes ⁽¹⁾⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾⁽⁶⁾
Warrant (Right to Purchase Series B Preferred Stock) ⁽¹²⁾⁽²³⁾	10/13/1999	10/13/2004	Series B Preferred Stock	3,510	2.75	I	See footnotes ⁽¹⁾⁽⁷⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾
Warrant (Right to Purchase Common Stock) ⁽²³⁾	06/19/2003	06/19/2010	Common Stock	15,733	0.63	I	See footnotes ⁽¹⁾⁽¹³⁾⁽¹⁴⁾⁽¹⁵⁾⁽¹⁶⁾⁽¹⁷⁾
Warrant (Right to Purchase Series D Preferred Stock) ⁽¹²⁾⁽²³⁾	02/14/2001	02/14/2006	Series D Preferred Stock	54,400	2.53	I	See footnotes ⁽¹⁾⁽¹³⁾⁽¹⁴⁾⁽¹⁵⁾⁽¹⁶⁾⁽¹⁷⁾

**Table II - Derivative Securities Beneficially Owned
(e.g., puts, calls, warrants, options, convertible securities)**

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of Derivative Security	5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			
Warrant (Right to Purchase Series D Preferred Stock) ⁽¹²⁾⁽²³⁾	04/12/2001	04/12/2006	Series D Preferred Stock	10,163	2.53	I	See footnotes ⁽¹⁾⁽¹³⁾⁽¹⁴⁾⁽¹⁵⁾⁽¹⁶⁾⁽¹⁷⁾
Warrant (Right to Purchase Common Stock) ⁽²³⁾	06/19/2003	06/19/2010	Common Stock	3,239	0.63	I	See footnotes ⁽¹⁾⁽¹⁸⁾⁽¹⁹⁾⁽²⁰⁾⁽²¹⁾⁽²²⁾
Warrant (Right to Purchase Series D Preferred Stock) ⁽¹²⁾⁽²³⁾	02/14/2001	02/14/2006	Series D Preferred Stock	11,200	2.53	I	See footnotes ⁽¹⁾⁽¹⁸⁾⁽¹⁹⁾⁽²⁰⁾⁽²¹⁾⁽²²⁾
Warrant (Right to Purchase Series D Preferred Stock) ⁽¹²⁾⁽²³⁾	04/12/2001	04/12/2006	Series D Preferred Stock	2,093	2.53	I	See footnotes ⁽¹⁾⁽¹⁸⁾⁽¹⁹⁾⁽²⁰⁾⁽²¹⁾⁽²²⁾

1. Name and Address of Reporting Person*
ENTERPRISE MANAGEMENT PARTNERS IV LP

(Last) (First) (Middle)
2223 AVENIDA DE LA PLAYA, SUITE 300

(Street)
LA JOLLA CA 92037

(City) (State) (Zip)

1. Name and Address of Reporting Person*
ENTERPRISE PARTNERS IV LP

(Last) (First) (Middle)
2223 AVENIDA DE LA PLAYA, SUITE 300

(Street)
LA JOLLA CA 92037

(City) (State) (Zip)

1. Name and Address of Reporting Person*
ENTERPRISE PARTNERS IV ASSOCIATES LP

(Last) (First) (Middle)
2223 AVENIDA DE LA PLAYA, SUITE 300

(Street)
LA JOLLA CA 92037

(City) (State) (Zip)

1. Name and Address of Reporting Person*

ENTERPRISE MANAGEMENT PARTNERS
IV A LP

(Last) (First) (Middle)

2223 AVENIDA DE LA PLAYA, SUITE 300

(Street)

LA JOLLA CA 92037

(City) (State) (Zip)

1. Name and Address of Reporting Person*

ENTERPRISE PARTNERS ANNEX FUND
IV LP

(Last) (First) (Middle)

2223 AVENIDA DE LA PLAYA, SUITE 300

(Street)

LA JOLLA CA 92037

(City) (State) (Zip)

1. Name and Address of Reporting Person*

ENTERPRISE PARTNERS ANNEX FUND
IV A LP

(Last) (First) (Middle)

2223 AVENIDA DE LA PLAYA, SUITE 300

(Street)

LA JOLLA 92037

(City) (State) (Zip)

1. Name and Address of Reporting Person*

STENSRUD WILLIAM R

(Last) (First) (Middle)

2223 AVENIDA DE LA PLAYA, SUITE 300

(Street)

LA JOLLA CA 92037

(City) (State) (Zip)

1. Name and Address of Reporting Person*

SENYEI ANDREW E

(Last) (First) (Middle)

2223 AVENIDA DE LA PLAYA, SUITE 300

(Street)

LA JOLLA CA 92037

(City) (State) (Zip)

1. Name and Address of Reporting Person*

BERGLUND JAMES H

(Last) (First) (Middle)

2223 AVENIDA DE LA PLAYA, SUITE 300

(Street)

LA JOLLA CA 92037

(City) (State) (Zip)

Explanation of Responses:

1. The Designated Filer is executing this report on behalf of Enterprise Management Partners IV, L.P., Enterprise Partners IV, L.P., Enterprise Partners IV Associates, L.P., Enterprise Management Partners IV-A, L.P., Enterprise Partners Annex Fund IV, L.P., Enterprise Partners Annex Fund IV-A, L.P., Andrew E. Senyei, James H. Berglund and William R. Stensrud (collectively, the Reporting Persons), each of whom has authorized it to do so. Each of the Reporting Persons disclaim beneficial ownership of the securities of the Issuer to the extent it exceeds such Reporting Person's pecuniary interest.
2. The amounts shown in Table I and Table II represent the beneficial ownership of the equity securities of the Issuer by Enterprise Partners IV, L.P.
3. The amounts shown in Table I and Table II represent the beneficial ownership of the Issuers equity securities by Enterprise Partners IV, L.P., a portion of which may be deemed attributable to Enterprise Management Partners IV, L.P., because it is the general partner of Enterprise Partners IV, L.P. The actual pro rata portion of such beneficial ownership that may be deemed to be attributable to such Reporting Person is not readily determinable because it is subject to several variables.
4. The amounts shown in Table I and Table II represent the beneficial ownership of the Issuers equity securities by Enterprise Partners IV, L.P., a portion of which may be deemed attributable to Andrew E. Senyei, because he is a general partner of Enterprise Management Partners IV, L.P., the general partner of Enterprise Partners IV, L.P. The actual pro rata portion of such beneficial ownership that may be deemed to be attributable to such Reporting Person is not readily determinable because it is subject to several variables.
5. The amounts shown in Table I and Table II represent the beneficial ownership of the Issuers equity securities by Enterprise Partners IV, L.P., a portion of which may be deemed attributable to James H. Berglund, because he is a general partner of Enterprise Management Partners IV, L.P., the general partner of Enterprise Partners IV, L.P. The actual pro rata portion of such beneficial ownership that may be deemed to be attributable to such Reporting Person is not readily determinable because it is subject to several variables.
6. The amounts shown in Table I and Table II represent the beneficial ownership of the Issuers equity securities by Enterprise Partners IV, L.P., a portion of which may be deemed attributable to William R. Stensrud, because he is a general partner of Enterprise Management Partners IV, L.P., the general partner of Enterprise Partners IV, L.P. The actual pro rata portion of such beneficial ownership that may be deemed to be attributable to such Reporting Person is not readily determinable because it is subject to several variables.
7. The amounts shown in Table I and Table II represent the beneficial ownership of the Issuers equity securities by Enterprise Partners IV Associates, L.P.
8. The amounts shown in Table I and Table II represent the beneficial ownership of the Issuers equity securities by Enterprise Partners IV Associates, L.P., a portion of which may be deemed attributable to Enterprise Management Partners IV, L.P., because it is the general partner of Enterprise Partners IV Associates, L.P. The actual pro rata portion of such beneficial ownership that may be deemed to be attributable to such Reporting Person is not readily determinable because it is subject to several variables.
9. The amounts shown in Table I and Table II represent the beneficial ownership of the Issuers equity securities by Enterprise Partners IV Associates, L.P., a portion of which may be deemed attributable to Andrew E. Senyei, because he is a general partner of Enterprise Management Partners IV, L.P., the general partner of Enterprise Partners IV Associates, L.P. The actual pro rata portion of such beneficial ownership that may be deemed to be attributable to such Reporting Person is not readily determinable because it is subject to several variables.
10. The amounts shown in Table I and Table II represent the beneficial ownership of the Issuers equity securities by Enterprise Partners IV Associates, L.P., a portion of which may be deemed attributable to James H. Berglund, because he is a general partner of Enterprise Management Partners IV, L.P., the general partner of Enterprise Partners IV Associates, L.P. The actual pro rata portion of such beneficial ownership that may be deemed to be attributable to such Reporting Person is not readily determinable because it is subject to several variables.
11. The amounts shown in Table I and Table II represent the beneficial ownership of the Issuers equity securities by Enterprise Partners IV Associates, L.P., a portion of which may be deemed attributable to William R. Stensrud, because he is a general partner of Enterprise Management Partners IV, L.P., the general partner of Enterprise Partners IV Associates, L.P. The actual pro rata portion of such beneficial ownership that may be deemed to be attributable to such Reporting Person is not readily determinable because it is subject to several variables.
12. Immediately following the closing of the initial public offering of the Issuers Common Stock, all outstanding shares of Preferred Stock will be automatically converted into shares of the Issuers Common Stock.
13. The amounts shown in Table I and Table II represent the beneficial ownership of the Issuers equity securities by Enterprise Partners Annex Fund IV, L.P.
14. The amounts shown in Table I and Table II represent the beneficial ownership of the Issuers equity securities by Enterprise Partners Annex Fund IV, L.P., a portion of which may be deemed attributable to Enterprise Management Partners IV-A, L.P., because it is the general partner of Enterprise Partners Annex Fund IV, L.P. The actual pro rata portion of such beneficial ownership that may be deemed to be attributable to such Reporting Person is not readily determinable because it is subject to several variables.
15. The amounts shown in Table I and Table II represent the beneficial ownership of the Issuers equity securities by Enterprise Partners Annex Fund IV, L.P., a portion of which may be deemed attributable to Andrew E. Senyei, because he is a general partner of Enterprise Management Partners IV-A, L.P., the general partner of Enterprise Partners Annex Fund IV, L.P. The actual pro rata portion of such beneficial ownership that may be deemed to be attributable to such Reporting Person is not readily determinable because it is subject to several variables.
16. The amounts shown in Table I and Table II represent the beneficial ownership of the Issuers equity securities by Enterprise Partners Annex Fund IV, L.P., a portion of which may be deemed attributable to James H. Berglund, because he is a general partner of Enterprise Management Partners IV-A, L.P., the general partner of Enterprise Partners Annex Fund IV, L.P. The actual pro rata portion of such beneficial ownership that may be deemed to be attributable to such Reporting Person is not readily determinable because it is subject to several variables.
17. The amounts shown in Table I and Table II represent the beneficial ownership of the Issuers equity securities by Enterprise Partners Annex Fund IV, L.P., a portion of which may be deemed attributable to William R. Stensrud, because he is a general partner of Enterprise Management Partners IV-A, L.P., the general partner of Enterprise Partners Annex Fund IV, L.P. The actual pro rata portion of such beneficial ownership that may be deemed to be attributable to such Reporting Person is not readily determinable because it is subject to several variables.
18. The amounts shown in Table I and Table II represent the beneficial ownership of the Issuers equity securities by Enterprise Partners Annex Fund IV-A, L.P.
19. The amounts shown in Table I and Table II represent the beneficial ownership of the Issuers equity securities by Enterprise Partners Annex Fund IV-A, L.P., a portion of which may be deemed attributable to Enterprise Management Partners IV-A, L.P., because it is the general partner of Enterprise Partners Annex Fund IV-A, L.P. The actual pro rata portion of such beneficial ownership that may be deemed to be attributable to such Reporting Person is not readily determinable because it is subject to several variables.
20. The amounts shown in Table I and Table II represent the beneficial ownership of the Issuers equity securities by Enterprise Partners Annex Fund IV-A, L.P., a portion of which may be deemed attributable to Andrew E. Senyei, because he is a general partner of Enterprise Management Partners IV-A, L.P., the general partner of Enterprise Partners Annex Fund IV-A, L.P. The actual pro rata portion of such beneficial ownership that may be deemed to be attributable to such Reporting Person is not readily determinable because it is subject to several variables.
21. The amounts shown in Table I and Table II represent the beneficial ownership of the Issuers equity securities by Enterprise Partners Annex Fund IV-A, L.P., a portion of which may be deemed attributable to James H. Berglund, because he is a general partner of Enterprise Management Partners IV-A, L.P., the general partner of Enterprise Partners Annex Fund IV-A, L.P. The actual pro rata portion of such beneficial ownership that may be deemed to be attributable to such Reporting Person is not readily determinable because it is subject to several variables.
22. The amounts shown in Table I and Table II represent the beneficial ownership of the Issuers equity securities by Enterprise Partners Annex Fund IV-A, L.P., a portion of which may be deemed attributable to William R. Stensrud, because he is a general partner of Enterprise Management Partners IV-A, L.P., the general partner of Enterprise Partners Annex Fund IV-A, L.P. The actual pro rata portion of such beneficial ownership that may be deemed to be attributable to such Reporting Person is not readily determinable because it is subject to several variables.
23. This warrant will be automatically exercised for shares of common stock upon the closing of the initial public offering of the Issuers Common Stock pursuant to the cashless exercise provisions contained therein, based on the price to the public in such offering.
24. The amounts shown in Table I and Table II represent the beneficial ownership of the Issuers equity securities by Enterprise Partners IV Associates, L.P., a portion of which may be deemed attributable to William R. Stensrud, because he is a general partner of Enterprise Management Partners IV, L.P., the general partner of Enterprise Partners IV Associates, L.P. The actual pro rata portion of such beneficial ownership that may be deemed to be attributable to such Reporting Person is not readily determinable because it is subject to several variables.

/s/ Andrew Senyei, general
partner of Enterprise
Management Partners IV, L.P.

05/12/2004

<u>/s/ Andrew Senyei, general partner of Enterprise Management Partners IV, L.P., general partner of Enterprise Partners IV, L.P.</u>	<u>05/12/2004</u>
<u>/s/ Andrew Senyei, general partner of Enterprise Management Partners IV, L.P., general partner of Enterprise Partners IV Associates, L.P.</u>	<u>05/12/2004</u>
<u>/s/ Andrew Senyei, general partner of Enterprise Management Partners IV-A, L.P.</u>	<u>05/12/2004</u>
<u>/s/ Andrew Senyei, general partner of Enterprise Management Partners IV-A, L.P., general partner of Enterprise Partners Annex Fund IV, L.P.</u>	<u>05/12/2004</u>
<u>/s/ Andrew Senyei, general partner of Enterprise Management Partners IV-A, L.P., general partner of Enterprise Partners Annex Fund IV-A, L.P.</u>	<u>05/12/2004</u>
<u>/s/ Willam R. Stensrud</u>	<u>05/12/2004</u>
<u>/s/ Andrew Senyei</u>	<u>05/12/2004</u>
<u>/s/ James Berglund</u>	<u>05/12/2004</u>

** Signature of Reporting Person 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 5 (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.