UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Form 8-K

Current Report

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): October 27, 2005

NUVASIVE, INC.

(Exact name of registrant as specified in its charter)

Delaware (State or Other Jurisdiction of

000-50744 (Commission File 33-0768598 (I.R.S. Employer Identification

Incorporation)

Number)

Number)

4545 Towne Centre Court, San Diego, California 92121

(Address of principal executive offices, with zip code)

(858) 909-1800

(Registrant s telephone number, including area code)

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n/a

(Former name or former address, if changed since last report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- " Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- " Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- " Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- " Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Item 2.02 Results of Operations and Financial Condition

On October 27, 2005, NuVasive, Inc. issued a press release announcing its financial results for the quarter ended September 30, 2005. A copy of this press release is furnished as Exhibit 99.1 hereto.

Item 9.01 Financial Statements and Exhibits

(c) Exhibits

Exhibit 99.1 Press release issued by NuVasive, Inc. on October 27, 2005, announcing financial results for the quarter ended September 30, 2005.

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SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

NUVASIVE, INC.

Date: October 27, 2005

By: /s/ Kevin C. O Boyle

Kevin C. O Boyle

Executive V.P. and Chief Financial Officer

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EXHIBIT INDEX

Exhibit Number	Description of Document
99.1	Press release issued by NuVasive, Inc. on October 27, 2005, announcing financial results for the quarter ended September 30, 2005.