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): July 27, 2010 NUVASIVE, INC.

(Exact name of registrant as specified in its charter)

Delaware

000-50744

33-0768598

(State or Other Jurisdiction of Incorporation)

(Commission File Number) (I.R.S. Employer Identification Number)

7475 Lusk Boulevard, San Diego, California 92121

(Address of principal executive offices, with zip code)

(858) 909-1800

(Registrant s telephone number, including area code)

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 (see General Instruction A.2. below):

o Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

o Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

o Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

o 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 July 27, 2010, NuVasive, Inc. issued a press release announcing its financial results for the quarter ended June 30, 2010. A copy of this press release is furnished as Exhibit 99.1 hereto.

Item 9.01 Financial Statements and Exhibits

(d) Exhibits

99.1 Press release issued by NuVasive, Inc. on July 27, 2010, announcing financial results for the quarter ended June 30, 2010.

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: July 27, 2010

By: /s/ Alexis V. Lukianov Alexis V. Lukianov Chairman and Chief Executive Officer

EXHIBIT INDEX

Exhibit Number

Description of Document

99.1 Press release issued by NuVasive, Inc. on July 27, 2010, announcing financial results for the quarter ended June 30, 2010.