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): February 23, 2005

NANOGEN, INC.

(Exact name of registrant specified in its charter)

Delaware (State or other jurisdiction

000-23541 (Commission File Number) 33-0489621 (I.R.S. Employer

of incorporation)

Identification No.)

10398 Pacific Center Court, San Diego, California (Address of principal executive offices) 92121 (Zip Code)

Registrant s telephone, including area code: (858) 410-4600

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(Former name and 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):

- " 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))

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Item 2.02. Results of Operations and Financial Condition.

On February 23, 2005, Nanogen, Inc. issued a press release to report its financial results for the quarter and year ended December 31, 2004. The release is furnished as Exhibit 99.1 hereto.

Item 9.01. Financial Statements and Exhibits.

- (c) Exhibits. The following documents are filed as exhibits to this report:
 - 99.1 Press Release dated February 23, 2005.

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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.

NANOGEN, INC.

Date: February 23, 2005 By: /s/ Robert Saltmarsh

Name: Robert Saltmarsh
Title: Chief Financial Officer

EXHIBIT INDEX

Exhibit

Number Document Description

99.1 Press Release dated February 23, 2005.