NANOMETRICS INC Form 8-K February 23, 2005

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

February 23, 2005 Date of Report (date of earliest event reported)

Nanometrics Incorporated (Exact name of Registrant as specified in charter)

California0-1347094-2276314(State or other jurisdiction of
incorporation)(Commission File Number)(I.R.S. Employer
Identification No.)

1550 Buckeye Drive, Milpitas, California 95035 (Address of principal executive offices)

Registrant's telephone number, including area code: (408) 435-9600

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))

Section 2 - Financial Information

Item 2.02 - Results of Operations and Financial Condition.

On February 23, 2005, Nanometrics Incorporated (the "Company") announced in a press release the Company's financial results for its fourth quarter and fiscal year ended January 1, 2005. A copy of that press release is attached hereto as Exhibit 99.1.

The information in this current report on Form 8-K and the exhibit

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attached hereto shall not be deemed "filed" for the purposes of Section 18 of the Securities Exchange Act of 1934 (the "Exchange Act") nor otherwise subject to the liabilities of that section, nor shall it be deemed incorporated by reference in any filing under the Securities Act of 1933, or the Exchange Act, regardless of any general incorporation language in such filing.

Section 9 - Financial Statements and Exhibits

Item 9.01 Financial Statements and Exhibits.

- (c) Exhibits.
 - 99.1 Press Release issued by Nanometrics Incorporated dated February 23, 2005.

Signature

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.

Dated: February 23, 2005

NANOMETRICS INCORPORATED

/s/ Paul B. Nolan

Paul B. Nolan Chief Financial Officer

Exhibit Index

Exhibit Number

Exhibit Title

Press release dated February 23, 2005.

99.1