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

May 4, 2005

Date of Report (Date of earliest event reported)

EMCORE CORPORATION

Exact name of registrant as specified in its charter

New Jersey

0-22175

State of Incorporation

22-2746503

IRS Employer Identification

No.

145 Belmont Drive, Somerset, New Jersev, 08873

Commission File Number

Address of principal executive offices, including Zip Code

(732) 271-9090

Registrant's telephone number, including area code

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:

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))

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Item 2.02. Results of Operations and Financial Condition.

On May 4, 2005, EMCORE Corporation (the "Registrant") issued a press release disclosing its second quarter earnings for fiscal year 2005. A copy of this press release is attached as Exhibit 99.1 to this Current Report.

The information in this Current Report, including Exhibit 99.1 hereto, shall not be incorporated by reference into any filing of the Registrant, whether made before or after the date hereof, regardless of any general incorporation language in such filing, unless expressly incorporated by specific reference to such filing. Furthermore, the information in this Current Report, including Exhibit 99.1 hereto, shall not be deemed to be "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended, or otherwise be subject to the liabilities of that section or Sections 11 and 12(a)(2) of the Securities Act of 1933, as amended.

The information set forth above is intended to be furnished under this Item 2.02, "Results of Operations and Financial Condition," and under Item 7.01, "Regulation FD Disclosure."

Item 7.01. Regulation FD Disclosure.

See Item 2.02, "Results of Operations and Financial Condition," above.

Item 9.01. Financial Statements and Exhibits.

(c) Exhibits

<u>Exhibit</u>	Decemina
No.	<u>Descript</u>

<u>tion</u>

99.1 Press Release of EMCORE Corporation, dated May 4, 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.

EMCORE CORPORATION

By: /s/ Thomas G. Werthan

Thomas G. Werthan Chief Financial Officer

Dated: May 4, 2005

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EXHIBIT INDEX

Exhibit
No.
99.1DescriptionPress Release of EMCORE Corporation, dated May 4, 2005.