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OMB APPROVAL  
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OMB Number: 3235-0058  
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SEC FILE NUMBER  
0-22175  
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UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549

FORM 12B-25

NOTIFICATION OF LATE FILING

(Check One): ☐ Form 10-K ☐ Form 20-F ☐ Form 11-K  
☒ Form 10-Q ☐ Form N-SAR

For Period Ended: March 31, 2004

☐ Transition Report on Form 10-K  
☐ Transition Report on Form 20-F  
☐ Transition Report on Form 11-K  
☐ Transition Report on Form 10-Q  
☐ Transition Report on Form N-SAR

For the Transition Period Ended: \_\_\_\_\_

=====  
Read Instruction (on back page) Before Preparing Form. Please Print or Type.  
NOTHING IN THIS FORM SHALL BE CONSTRUED TO IMPLY THAT THE COMMISSION HAS  
VERIFIED ANY INFORMATION CONTAINED HEREIN.  
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If the notification relates to a portion of the filing checked above, identify  
the Item(s) to which the notification relates:

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PART I -- REGISTRANT INFORMATION

EMCORE Corporation  
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Full Name of Registrant  
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Former Name if Applicable  
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145 Belmont Drive  
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Address of Principal Executive Office (Street and Number)  
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Somerset, New Jersey 08873  
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City, State and Zip Code  
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PART II -- RULES 12B-25(B) AND (C)

If the subject report could not be filed without unreasonable effort or expense  
and the registrant seeks relief pursuant to Rule 12b-25(b), the following should  
be completed. (Check box if appropriate)

(a) The reasons described in reasonable detail in Part III of  
this form could not be eliminated without unreasonable effort  
or expense;

(b) The subject annual report, semi-annual report, transition  
report on Form 10-K, Form 20-F, 11-K or Form N-SAR, or portion  
thereof, will be filed on or before the fifteenth calendar day  
following the prescribed due date; or the subject quarterly  
report or transition report on Form 10-Q, or portion thereof  
will be filed on or before the fifth calendar day following the  
prescribed due date; and

[X]

(c) The accountant's statement or other exhibit required by Rule 12b-25(c) has been attached if applicable.

PART III -- NARRATIVE

State below in reasonable detail the reasons why Forms 10-K, 20-F, 11-K, 10-Q, N-SAR, or the transition report portion thereof, could not be filed within the prescribed time period.

EMCORE has determined, based on consultation with its auditors, that the gain realized upon the retirement in February 2004 of approximately \$146 million aggregate principal amount of its 5% Convertible Subordinated Notes due May 2006 in exchange for approximately \$80.3 million of its new 5% Convertible Senior Subordinated Notes due May 15, 2011 and approximately 7.7 million shares of its common stock should be classified as other income (under "Other expenses") rather than as operating income (under "Operating expenses") in its statement of operations. Accordingly, we require additional time to revise our Quarterly Report on Form 10-Q for the quarter ended March 31, 2004. This reclassification does not affect EMCORE's balance sheet or statement of cash flows and has no effect on our previously reported earnings per share or net worth. We expect to file this Form 10-Q shortly.

PART IV-- OTHER INFORMATION

(1) Name and telephone number of person to contact in regard to this notification

Howard W. Brodie, Vice President and General Counsel

(732)

271-9090

(Name)

(Area Code) (Telephone Number)

(2) Have all other periodic reports required under Section 13 or 15(d) of the Securities Exchange Act of 1934 or Section 30 of the Investment Company Act of 1940 during the preceding 12 months or for such shorter period that the registrant was required to file such report(s) been filed? If answer is no, identify report(s).

☒ Yes ☐ No

(3) Is it anticipated that any significant change in results of operations from the corresponding period for the last fiscal year will be reflected by the earnings statements to be included in the subject report or portion thereof?

☐ Yes ☒ No

If so, attach an explanation of the anticipated change, both narratively and quantitatively, and, if appropriate, state the reasons why a reasonable estimate of the results cannot be made.

EMCORE Corporation

(Name of Registrant as Specified in Charter)

has caused this notification to be signed on its behalf by the undersigned hereunto duly authorized.

Date May 18, 2004

By /s/ Thomas G. Werthan

Thomas G. Werthan  
Vice President and Chief  
Financial Officer

INSTRUCTION: The form may be signed by an executive officer of the registrant or by any other duly authorized representative. The name and title of the person signing the form shall be typed or printed beneath the signature. If

the statement is signed on behalf of the registrant by an authorized representative (other than an executive officer), evidence of the representative's authority to sign on behalf of the registrant shall be filed with the form.

ATTENTION

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INTENTIONAL MISSTATEMENTS OR OMISSIONS OF FACT CONSTITUTE FEDERAL CRIMINAL VIOLATIONS (SEE 18 U.S.C. 1001).  
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GENERAL INSTRUCTIONS

1. This form is required by Rule 12b-25 (17 CFR 240.12b-25) of the General Rules and Regulations under the Securities Exchange Act of 1934.
2. One signed original and four conformed copies of this form and amendments thereto must be completed and filed with the Securities and Exchange Commission, Washington, D.C. 20549, in accordance with Rule 0-3 of the General Rules and Regulations under the Act. The information contained in or filed with the form will be made a matter of public record in the Commission files.
3. A manually signed copy of the form and amendments thereto shall be filed with each national securities exchange on which any class of securities of the registrant is registered.
4. Amendments to the notifications must also be filed on Form 12b-25 but need not restate information that has been correctly furnished. The form shall be clearly identified as an amended notification.
5. Electronic filers. This form shall not be used by electronic filers unable to timely file a report solely due to electronic difficulties. Filers unable to submit a report within the time period prescribed due to difficulties in electronic filing should comply with either Rule 201 or Rule 202 of Regulation S-T (ss.232.201 or ss.232.202 of this chapter) or apply for an adjustment in filing date pursuant to Rule 13(b) of Regulation S-T (ss.232.13(b) of this Chapter).