

SECURITIES EXCHANGE COMMISSION
Washington, DC 20549

Under the Securities Exchange Act of 1934
(Amendment No. 0)

EMCORE CORPORATION
(Name of Issuer)

Common
(Title of Class of Securities)

290846104
(CUSIP NUMBER)

Rebecca Cinci
Pioneer Investment Management, Inc.
60 State Street
Boston, MA 02109
617-422-4975
(Name, Address and Telephone Number of Person Authorized to
Receive Notices and Communications)

February 25, 2004
(Date of Event Which Requires Filing of this Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of 240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), check the following box. [x]

1. Name of Reporting Pioneer Global Asset Person Management S.p.A.

IRS Identification No. of Above 98-0362802
2. Check the Appropriate Box (a) of A Member of Group (See Instructions)
(b)
3. SEC Use Only
4. Source of Funds (See instructions) 00
5. Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)
6. Citizenship of Place of Organization Milan, Italy

Number of Shares Beneficially Owned by Each Reporting Person With
 7. Sole Voting Power 10,444,837
 8. Shared Voting Power 0
 9. Sole Dispositive Power 10,444,837
 10. Shared Dispositive Power 0
11. Aggregate Amount Beneficially Owned by Each Reporting Person 10,444,837
12. Check if the aggregate Amount in Row (11) Exclude Certain Shares (See Instructions) []
13. Percent of Class Represented By Amount in Row 11. 23.34%
14. Type of Reporting Person (See Instructions) HC

Item 1. Security and Issuer

The class of equity securities to which this Statement relates is the common stock, \$0.01 par value per share (the "Common Stock"), of Emcore Corporation (the "Issuer"), the executive office of which is located at 145 Belmont Drive Somerset, NJ 08873.

Item 2. Identity and Background

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- (a) Name: Pioneer Global Asset Management S.p.A.
 - (b) Residence or Business Address: Galleria San Carlo 6, 20122 Milan, Italy
 - (c) Present Principal Occupation or Employment: Financial Services, Galleria San Carlo 6, 20122 Milan, Italy
 - (d) None.
 - (e) None.
 - (f) Citizenship: Italy

Item 3. Source and Amount of Funds or Other Consideration

The purchase of the Common Stock was made with the personal funds of Mr. Windisch. Mr. Windisch received 26,304 shares which may be acquired pursuant to the exercise of options which were granted pursuant to compensation plans of the Issuer.

Item 4. Purpose of Transaction

The Funds acquired the Common Stock of Emcore Corporation reported herein for the purposes of investment. The Funds may, in the future, purchase additional shares of Common Stock of Emcore Corporation or sell such securities.

The Funds do not have any present plan or proposal which would relate to or result in transactions of the kind described in paragraphs (a) through (j) of Item 4 of Schedule 13d-101 of the Securities and Exchange Commission. The Funds reserve the right, in the future, to adopt such plans or proposals.

- (a) the acquisition by any person of additional securities of the Issuer, or the disposition of securities of the Issuer;
- (b) an extraordinary corporate transaction, such as a merger, reorganization or liquidation, involving the Issuer or any of its subsidiaries;
- (c) a sale or transfer of a material amount of assets of the Issuer or any of its subsidiaries;
- (d) any change in the present board of directors or management of the Issuer, including any plans or proposals to change the number or term of directors or to fill any existing vacancies on the board;
- (e) any material change in the present capitalization or dividend policy of the Issuer;
- (f) any other material change in the Issuer's business or corporate structure;
- (g) changes in the Issuer's articles of incorporation, bylaws or instruments corresponding thereto or other actions which may impede the acquisition of control of the Issuer by any persons;
- (h) causing a class of securities of the Issuer to be delisted from a national securities exchange or to cease to be authorized to be quoted in an inter-dealer quotation system of a registered national securities association;
- (i) a class of equity securities of the Issuer becoming eligible for termination of registration pursuant to Section 12(g)(4) of the Securities Exchange Act of 1934, as amended; or
- (j) any action similar to any of those enumerated above.

Item 5. Interest in Securities of the Issuer

(a) The reporting person beneficially owns 10,444,837 shares of the Issuer as of the date of this statement, representing 23.34% of the issued and outstanding shares. This includes 4,538,881 shares of the Common Stock and \$47,602,000 5% 05/15/2011 convertible bonds, which represent 5,905,956 shares of common stock upon conversion.

(b) Pioneer Global Asset Management S.p.A exercises sole voting and dispositive power over 10,444,837 shares.

(c) On 02/25/2004 there was a corporate action exchange of \$86,550,000 Emcore Corporation 5% 05/15/2006 (old) bonds for \$47,602,000 5% 05/15/2011 (new) bonds, and 4,538,881 shares of common stock.

(d) No other person has any interest in the securities reported on pursuant to his Schedule 13D.

(e) Not applicable.

Item 6. Contracts, Arrangements, Understanding, or Relationships With Respect to Securities of the Issuer

There are no contracts, arrangements, understandings, or relationships between the undersigned and any other person with respect to the issuer's securities, including but not limited to the transfer or voting of securities, finder's fees, joint ventures, loan or option arrangements, puts or calls, guarantees of profits, division of profits or loss, the giving or withholding of proxies, or otherwise.

Item 7. Material to be Filed as Exhibits

Not applicable.

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete, and correct.

March 5, 2004

/s/Dario Frigerio

Dario Frigerio
Chief Executive Officer