| SEC Form 4 | |
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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

| Check this box if no longer subject to |
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| |
| Section 16. Form 4 or Form 5 |
| obligations may continue. See |
| Instruction 1(b). |

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

| OMB APPROVAL | | | | | | | | | | |
|-----------------------|------|--|--|--|--|--|--|--|--|--|
| OMB Number: 3235-0287 | | | | | | | | | | |
| Estimated average bu | rden | | | | | | | | | |
| | 0.5 | | | | | | | | | |

| nours per response: 0.5 |
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| |

| 1. Nume and Address of Reporting reison | | | 2. Issuer Name and Ticker or Trading Symbol <u>EMCORE CORP</u> [EMKR] | | tionship of Reporting F all applicable) Director | n(s) to Issuer 10% Owner | |
|---|---------|----------|--|-------------------|---|-----------------------------|-----------------------|
| C/O EMCORE CORPORATION | | (Middle) | 3. Date of Earliest Transaction (Month/Day/Year) 10/20/2005 | | Officer (give title below) | | Other (specify below) |
| 145 BELMONT DRIVE | | | 4. If Amendment, Date of Original Filed (Month/Day/Year) | 6. Indiv Line) | Check Applicable | | |
| (Street) SOMERSET | NJ | 08873 | | X | Form filed by One Reporting Person Form filed by More than One Reporting Person | | |
| (City) | (State) | (Zip) | | | | | |

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transactior Code (Instr. 8) | | Disposed Of | es Acquired (A) or Of (D) (Instr. 3, 4 and | | 5. Amount of Securities Beneficially Owned Following Reported | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--|---|---|---|-------------|---|--------|---|---|---|
| | | | Code | v | Amount | (A) or (D) | Price | Transaction(s) (Instr. 3 and 4) | | (1150.4) |
| Common Stock | 10/20/2005 | | A | | 652 | A | \$5.52 | 2,736,171 | D | |
| Common Stock | | | | | | | | 2,280,035 | Ι | By AER 1997 Trust |

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

| I | (e.g., puts, cails, warrants, options, convertible securities | | | | | | | | | | (cigi, puts, cuis, warants, options, convertible securities) | | | | | | | | | |
|---|---|---|---|--|---|---|-----|---|---------------------|--|--|---|--|---|--|--|--|--|--|--|
| | 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | Conversion or Exercise Price of Derivative | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | | 6. Date Exercisable and Expiration Date (Month/Day/Year) | | 7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) | | 8. Price of Derivative Security (Instr. 5) | 9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4) | 10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) | | | |
| | | | | | Code | v | (A) | (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares | | | | | | | | |

Explanation of Responses:

Remarks:

Thomas J. Russell

** Signature of Reporting Person Date

10/20/2005

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

 \ast If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.