EMCORE CORP Form 4 March 27, 2008

FORM 4

OMB APPROVAL

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB Number:

response...

3235-0287 January 31,

0.5

if no longer subject to

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Expires: 2005 Estimated average burden hours per

Section 16. Form 4 or Form 5 obligations may continue. See Instruction

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading **RUSSELL THOMAS** Issuer Symbol EMCORE CORP [EMKR] (Check all applicable) (First) (Middle) (Last) 3. Date of Earliest Transaction X_ Director (Month/Day/Year) 10% Owner Officer (give title Other (specify **EMCORE CORPORATION, 10420** 03/25/2008 below) RESEARCH ROAD, SE (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check Filed(Month/Day/Year) Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting ALBUQUERQUE, NM 87123 (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. Transactic Code (Instr. 8) | 4. Securities Acquired (A mor Disposed of (D) (Instr. 3, 4 and 5) | | 5. Amount of Securities Beneficially Owned | 6. Ownership Form: Direct (D) | 7. Nature of Indirect Beneficial Ownership |
|--------------------------------------|---|---|--|---|-------|---|-------------------------------|--|
| | | | Code V | (A) or Amount (D) | Price | Following Reported Transaction(s) (Instr. 3 and 4) | or Indirect (I) (Instr. 4) | (Instr. 4) |
| Common Stock | 03/25/2008 | | P | 59,200 A \$ 5. | 9516 | 2,993,756 | D | |
| Common Stock | | | | | | 2,280,035 | I | By AER 1997 Trust |

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

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

| 1. Title of Derivative | 2. Conversion | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if | 4. Transacti | 5. orNumber | 6. Date Exerc Expiration D | | 7. Title Amount | | 8. Price of Derivative | 9. Nu Deriv |
|------------------------|--|--------------------------------------|-------------------------------|--------------------|----------------|-------------------------------|--------------------|----------------------------------|--|------------------------|---|
| Security (Instr. 3) | or Exercise Price of Derivative Security | (Month/Day/Tear) | any (Month/Day/Year) | Code (Instr. 8) | of | (Month/Day/ | | Underly Securiti (Instr. 3 | ying ies | Security (Instr. 5) | Secur Bene Owne Follo Repo Trans (Instr |
| | | | | Code V | (A) (D) | Date Exercisable | Expiration Date | Title N | Amount or Number of Shares | | |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | | | |
|--|---------------|-----------|---------|-------|--|--|
| 1 8 | Director | 10% Owner | Officer | Other | | |
| RUSSELL THOMAS EMCORE CORPORATION 10420 RESEARCH ROAD, SE ALBUQUERQUE, NM 87123 | X | | | | | |
| O! 1 | | | | | | |

Signatures

Thomas J. 03/26/2008 Russell

**Signature of Date
Reporting Person

Explanation of Responses:

- * 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. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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