

Larocca Christopher M
 Form 4
 December 28, 2011

FORM 4

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

OMB APPROVAL

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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

(Print or Type Responses)

1. Name and Address of Reporting Person *
 Larocca Christopher M

2. Issuer Name and Ticker or Trading Symbol
 EMCORE CORP [EMKR]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)
 10420 RESEARCH ROAD SE
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)
 12/23/2011

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
 Chief Operating Officer

ALBUQUERQUE, NM 87123

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)
 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. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|-----------------------------------|
| | | | Code | V | Amount (A) or (D) Price | | |
| Emcore Common Stock | 12/23/2011 | | A | | 1,112 (3) \$ 0.9 | D | |
| Emcore Common Stock | | | | | 20,599 (2) | I | By Trust 401(k) |

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 Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 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 Underlying Securities (Instr. 3 and 4) | 8. Price of Derivative Security (Instr. 5) | 9. Nu... Deriv... Secur... Bene... Own... Follo... Repo... Trans... (Instr...) |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--|--|
| | | | | | | Date Exercisable | Expiration Date | Title | Amount or Number of Shares |
| | | | | | | Code | V | (A) | (D) |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|-------------------------|-------|
| | Director | 10% Owner | Officer | Other |
| Larocca Christopher M 10420 RESEARCH ROAD SE ALBUQUERQUE, NM 87123 | | | Chief Operating Officer | |

Signatures

Alfredo Gomez,
attorney-in-fact
Date: 12/28/2011
**Signature of 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).
 - (1) Includes 70,000 shares of restricted stock granted under the Company's 2010 Equity Incentive Plan, vesting in three equal annual installments beginning on January 28, 2012; 50,000 restricted stock units granted under the Company's 2010 Equity Incentive Plan and vesting in three equal annual installments beginning on August 22, 2012; and 48,000 restricted stock units vesting in four equal installments on February 14, 2012; December 6, 2012; December 6, 2013; and December 6, 2014.
 - (2) Shares attributable to EMCORE Corporation 401(k) account as of September 30, 2011.
 - (3) Shares were purchased under the Company's Officer and Director Share Purchase Plan in a transaction exempt from Section 16b pursuant to Rule 16b-3(d).

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.