

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

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 burden hours per response:	0.5

1. Name and Address of Reporting Person* <u>Gomez Alfredo</u>  (Last) (First) (Middle) <u>10420 RESEARCH ROAD SE</u>  (Street) <u>ALBUQUERQUE NM</u> <u>87123</u>  (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>EMCORE CORP [ EMKR ]</u>  3. Date of Earliest Transaction (Month/Day/Year) <u>05/04/2012</u>  4. If Amendment, Date of Original Filed (Month/Day/Year)	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>Gen. Counsel and Corp. Sec.</u>  6. Individual or Joint/Group Filing (Check Applicable Line)  <input checked="" type="checkbox"/> Form filed by One Reporting Person  Form filed by More than One Reporting Person
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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 Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Emcore Common Stock	05/04/2012		s <sup>(1)</sup>		1,583	D	\$5.05	24,161 <sup>(2)</sup>	D	
Emcore Common Stock								1,783 <sup>(3)</sup>	I	By Trust 401(k)

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 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:

1. All sales were effected to satisfy the Reporting Person's tax liability in connection with the vesting of shares of restricted stock that were previously granted under the Company's 2010 Equity Incentive Plan, which initial grant was exempt from Section 16b pursuant to Rule 16b-3(d).

2. Includes 8,333 shares of restricted stock vesting as follows: 4,167 shares of restricted stock will vest on January 28, 2012 and 4,166 shares of restricted stock will vest on January 28, 2013; and 8,334 shares of restricted stock vesting in two equal annual installments beginning on May 3, 2013.

3. Shares attributable to EMCORE Corporation 401(k) account as of March 31, 2012.

/s/ Alfredo Gomez 05/07/2012  
\*\* Signature of Reporting Person Date

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