

U.S. SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, DC 20549

FORM 3

OMB APPROVAL

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INITIAL STATEMENT OF 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(f) of the Investment Company Act of 1940

1. Name and Address of Reporting Person\*

Last, First, Middle: Kroll, William J.

Street: c/o EMCORE Corporation, 394 Elizabeth Avenue

City, State, Zip: Somerset, New Jersey 08873

2. Date of Event Requiring Statement (Month/Day/Year): 3/6/97

3. IRS or Social Security Number of Reporting Person  
(Voluntary)

4. Issuer Name and Ticker or Trading Symbol: EMCORE  
Corporation (EMKR)

5. Relationship of Reporting Person(s) to Issuer (Check all  
applicable)

( ) Director ( ) 10% Owner

( x ) Officer (give title below)

( ) Other (specify below)

Executive Vice President-Business Development

6. If Amendment, Date of Original (Month/Day/Year)

7. Individual or Joint/Group Filing (Check Applicable Line)

( x ) Form filed by One Reporting Person

( ) Form filed by More than One Reporting Person

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

TABLE I -- NON-DERIVATIVE SECURITIES BENEFICIALLY OWNED

	1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)
(1)	Common Stock	42,772	D

TABLE I -- CONTINUED

	1. Title of Security (Instr. 4)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
(1)	Common Stock	

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

TABLE II -- DERIVATIVE SECURITIES BENEFICIALLY OWNED  
(E.G., PUTS, CALLS, WARRANTS, OPTIONS, CONVERTIBLE SECURITIES)

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)	
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
(1) Incentive Common Stock Options (right to buy)	Immed.	9/11/05	Common Stock	5,882
(2) Common Stock Warrants (right to buy)	Immed.	5/01/01	Common Stock	16,134

TABLE II -- CONTINUED

1. Title of Derivative Security (Instr. 4)	4. Conversion or Exercise Price of Derivative Security	5. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
(1) Incentive Common Stock Options (right to buy)	\$3.03	D	
(2) Common Stock Warrants (right to buy)	\$4.08	D	

Explanation of Responses:

/s/ William J. Kroll  
\*\*Signature of Reporting Person

\*\* 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 provided 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.