

OMB APPROVAL

OMB Number 3235-0287
Expires: September 30, 1998
Estimated average burden
hours per response 0.5

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

FORM 4

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

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

1. Name and Address of Reporting Person*

Kroll, William J.

(Last, First Middle)

c/o EMCORE Corporation, 145 Belmont Drive

(Street)

Somerset, New Jersey 08873

(City, State Zip)

2. Issuer Name and Ticker or Trading Symbol

EMCORE Corporation (EMKR)

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

4. Statement for Month/Year

August 2000

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

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

[] Director [] 10% Owner
[X] Officer (give title below) [] Other (specify below)
Executive Vice President

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 4(b)(v).

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

1. Title of Security (Instr. 3)	2. Transaction Date (mm/dd/yy)	3. Transaction Code (Instr. 8) Code V	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) Amount	(A) or (D)	Price
(1) Common Stock	8/8/00	S	1,000	D	\$87.50
(2) Common Stock	8/8/00	S	500	D	\$88.50
(3) Common Stock	8/8/00	S	2,000	D	\$89.00
(4) Common Stock	8/8/00	S	500	D	\$88.00

(5)	Common Stock	8/8/00	S	1000	D	\$87.31
(6)	Common Stock	8/8/00	S	700	D	\$93.25

Table I (cont.) -- Non-Derivative Securities Acquired, Disposed of,
or Beneficially Owned

1. Title of Security (Instr. 3)	5. Amount of Securities Beneficially Owned at End of Month (Instr. 3 and 4)	6. Owner- ship Form: Direct (D) or Indirect (I) (Instr.4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
(1) Common Stock	36,772	D	
(2) Common Stock	36,772	D	
(3) Common Stock	36,772	D	
(4) Common Stock	36,772	D	
(5) Common Stock	36,772	D	
(6) Common Stock	36,772	D	

=====

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

=====
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)	4. Transaction Code (Instr. 8) ----- Code V		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) ----- A) (D)		6. Date Exercisable and Expiration Date (Month/Day/Year) ----- Date Exer- Expira- cisable tion Date Date	
(1) Incentive Common Stock Options (right to buy)	\$10.20	8/8/00	M		5,000		(1)	11/06

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

7. Title and Amount of Underlying Securities (Instr. 3 and 4)				9. Number of Derivative Securities Beneficially Owned at End of Month (Instr.4)	10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
1. Title of Derivative Security (Instr. 3)	Title	Amount or Number of Shares	8. Price of Derivative Security (Instr. 5)			
(4) Incentive Common Stock Options (right to buy)	Common Stock	5,000		9,566	D	

Explanation of Responses:

(1) 6,377 options are currently vested and immediately exercisable. Balance vests in 11/00.

/s/ William J. Kroll	September 8, 2000
-----	-----
**Signature of Reporting Person	Date

** 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 procedures.

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.