

OMB APPROVAL

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

FORM 3

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*

Rotella, Paul

(Last, First Middle)

c/o EMCORE Corporation, 145 Belmont Drive

(Street)

Somerset, NJ 08873

(City, State Zip)

2. Date of Event Requiring Statement (Month/Day/Year)

07/25/00

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)

Vice President - Turbo Disc Systems Division

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)	4. Nature of Indirect Beneficial Ownership (Instr.5)
(1) Common Stock	261	D	

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 Exer- cisable	Expira- tion Date	Title	Amount or Number of Shares
(1) Incentive Common Stock Options	(1)	10/21/06	Common Stock	7,353
(2) Incentive Common Stock Options	(2)	11/22/06	Common Stock	1,593
(3) Incentive Common Stock Options	(3)	12/01/08	Common Stock	16,054
(4) Incentive Common Stock Options	(4)	04/14/10	Common Stock	12,500

- (1) 60% of the options are currently vested and thus immediately exercisable. Remainder vest 20% annually beginning 10/21/00.
- (2) 60% of the options are currently vested and thus immediately exercisable. Remainder vest 20% annually beginning 11/22/00.
- (3) 20% of the options are currently vested and thus immediately exercisable. Remainder vest 20% annually beginning 12/1/00.
- (4) 40% of the options vest 40% on 9/30/00 and 20% annually thereafter beginning 2/16/01.

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

1. Title of Derivative Security (Instr. 4)	4. Conver- sion or Exercise Price of Derivative Security	5. Owner- ship Form of Derivative Security: Direct (D) or Indirect (I) (Instr.5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
(1) Incentive Common Stock Options	\$10.20	D	
(2) Incentive Common Stock Options	\$10.20	D	
(3) Incentive Common Stock Options	\$12.875	D	
(4) Incentive Common Stock Options	\$44.00	D	

Explanation of Responses:

/s/ Paul Rotella	08/11/00
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**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 procedure.

Alternatively, this form is permitted to be submitted to the Commission in electronic format at the option of the reporting person pursuant to Rule 101(b)(4) of Regulation S-T.

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.