

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

**FORM S-8
REGISTRATION STATEMENT
UNDER
THE SECURITIES ACT OF 1933**

EMCORE CORPORATION
(Exact name of registrant as specified in its charter)

New Jersey
(State or other jurisdiction of
incorporation or organization)

**10420 Research Road SE
Albuquerque, New Mexico 87123**
(Address, including zip code, of Principal Executive Offices)

22-2746503
(I.R.S. Employer
Identification Number)

EMCORE Corporation 2007 Directors' Stock Award Plan
(as Amended and Restated)
(Full title of the plan)

**Mark B. Weinswig
Chief Financial Officer
EMCORE Corporation
10420 Research Road SE
Albuquerque, New Mexico 87123**
(Name and address of agent for service)

(505) 332-5000
(Telephone number, including area code, of agent for service)

With Copies to:

**Tobias L. Knapp, Esq.
Jenner & Block LLP
919 Third Avenue
New York, New York 10022
(212) 891-1600**

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definition of "large accelerated filer", "accelerated filer", and "smaller reporting company" in Rule 12b-2 of the Exchange Act. (Check one):

☐ Large accelerated filer ☒ **Accelerated filer** ☐ Non-accelerated filer ☐ Smaller reporting company

CALCULATION OF REGISTRATION FEE

Title of Securities to be Registered	Amount to Be Registered (1)	Proposed Maximum Offering Price Per Unit (2)	Proposed Maximum Aggregate Offering Price (2)	Amount of Registration Fee (2)
Common Stock, no par value per share	250,000	\$3.63	\$907,500	\$124

- (1) This registration statement is being filed for purposes of registering 250,000 shares of Common Stock of EMCORE Corporation, issuable pursuant to our amended and restated 2007 Directors' Stock Award Plan, as the same may be further amended or restated (the "Plan"). Pursuant to Rule 416(a) under the Securities Act of 1933, as amended, this registration statement (the "Registration Statement") also covers an indeterminate number of shares that may be offered or issued as a result of stock splits, stock dividends, or similar transactions.
- (2) Estimated pursuant to Rule 457(h) and Rule 457(c) of the General Rules and Regulations under the Securities Act for the purpose of computing the registration fee, based on the average of the high and low sales prices on The NASDAQ Global Market on June 12, 2013, which was \$3.63.

This Registration Statement shall become effective upon filing in accordance with Rule 462(a) under the Securities Act of 1933.

INTRODUCTION

Pursuant to General Instruction E of Form S-8, the Registrant is filing this Registration Statement in order to register an additional 250,000 shares of its common stock, no par value per share (the “Common Stock”), under the Plan. These additional securities are of the same class and relate to the same Plan as those shares registered on the Registrant's registration statements on Form S-8 previously filed with the Commission on June 5, 2009 (File No. 333-159769) and July 25, 2011 (File No. 333-175777), which are hereby incorporated by reference.

PART II
INFORMATION REQUIRED IN REGISTRATION STATEMENT

Item 3. Incorporation of Documents by Reference

The following documents which have been filed (other than filings or portions of filings that are furnished under applicable SEC rules rather than filed) by the Registrant with the Commission pursuant to the Securities Exchange Act of 1934, as amended (the "Exchange Act"), are incorporated by reference herein and shall be deemed to be a part hereof:

(a) The Registrant's Annual Report on Form 10-K for the fiscal year ended September 30, 2012, as amended by Amendment No. 1 to Form 10-K, filed with the SEC on February 26, 2013;

(b) All other reports filed by the Registrant pursuant to Section 13(a) or 15(d) of the Exchange Act since September 30, 2012 including the Registrant's Quarterly Reports on Form 10-Q for the quarterly periods ended December 31, 2012, filed with the SEC on February 6, 2013, and March 31, 2013, filed with the SEC on May 10, 2013, and the Registrant's Current Reports on Form 8-K filed October 2, 2012, November 14, 2012, December 14, 2012, January 4, 2013, March 11, 2013, and May 23, 2013; and

(c) The description of the Registrant's Common Stock contained in the Registrant's registration statement on Form 8-A filed with the Commission on February 26, 1997, including any amendments thereto or reports filed for the purpose of updating such description.

In addition, all documents subsequently filed (other than filings or portions of filings that are furnished under applicable SEC rules rather than filed) by the Registrant with the Commission pursuant to Sections 13(a), 13(c), 14 and 15(d) of the Exchange Act, prior to the filing of a post-effective amendment to this Registration Statement, which indicates that all securities offered have been sold or which deregisters all securities then remaining unsold, shall be deemed to be incorporated by reference in this Registration Statement and made a part hereof from their respective dates of filing (such documents, and the documents enumerated above, being hereinafter referred to as "Incorporated Documents").

Any statement contained in an Incorporated Document shall be deemed to be modified or superseded for purposes of this Registration Statement to the extent that a statement contained herein or in any other subsequently filed Incorporated Document modifies or supersedes such statement. Any such statement so modified or superseded shall not be deemed, except as so modified or superseded, to constitute a part of this Registration Statement.

Under no circumstances will any information filed under current Item 2.02 or 7.01 of Form 8-K be deemed incorporated herein by reference unless such Form 8-K expressly provides to the contrary.

Item 4. Description of Securities

Not applicable.

Item 5. Interests of Named Experts and Counsel

Not applicable.

Item 6. Indemnification of Directors and Officers

Section 14A:3-5 of the New Jersey Business Corporation Act provides that a corporation may indemnify a corporate agent made a party to a proceeding (other than a proceeding by or in the right of the corporation) by reason of the fact that such person was a corporate agent, against expenses and liabilities in connection with any proceeding if he or she acted in good faith and in a manner he or she reasonably believed to be in, or not opposed to, the best interests of the corporation and, with respect to any criminal proceeding (other than a proceeding by or in the right of the corporation) has no reasonable cause to believe his or her conduct was unlawful.

The Registrant's Restated Certificate of Incorporation and By-Laws include provisions (i) to reduce the personal liability of the Registrant's directors for monetary damage resulting from breaches of their fiduciary duty, and (ii) to permit the Registrant to indemnify its directors and officers to the fullest extent permitted by New Jersey law. The Registrant has obtained directors' and officers' liability insurance that insures such persons against the costs of defense, settlement, or payment of a judgment under certain circumstances.

Item 7. Exemption from Registration Claimed

Not applicable.

Item 8. Exhibits

<u>Exhibit No.</u>	<u>Exhibit Description</u>
4.1	2007 Directors' Stock Award Plan (incorporated by reference to the Appendix of Registrant's Proxy Statement filed on January 25, 2013).
4.2	Restated Certificate of Incorporation, dated April 4, 2008 (incorporated by reference to Exhibit 3.1 to the Registrant's Current Report on Form 8-K filed on April 4, 2008).
4.3	Certificate of Amendment of Restated Certificate of Incorporation, dated February 15, 2012 (incorporated by reference to Exhibit 3.1 to the Registrant's Current Report on Form 8-K filed on February 16, 2012).
4.4	Amended By-Laws, as amended through August 6, 2012 (incorporated by reference to Exhibit 3.1 to the Registrant's Current Report on Form 8-K filed on August 7, 2012).
4.5	Specimen Certificate for Shares of Common Stock (incorporated by reference to Exhibit 4.1 to Amendment No. 3 to the registration statement on Form S-1 filed on February 24, 1997).
5.1	Legal Opinion of Jenner & Block LLP.*
23.1	Consent of KPMG LLP.*
23.2	Consent of Jenner & Block LLP (included in its opinion filed as Exhibit 5.1 in this Registration Statement).*
24.1	Power of Attorney (included on the signature page to this Registration Statement).*

* Filed herewith

Item 9. Undertakings

(a) Subsequent Disclosure

The undersigned registrant hereby undertakes:

(1) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:

(i) To include any prospectus required by Section 10(a)(3) of the Securities Act;

(ii) To reflect in the prospectus any facts or events arising after the effective date of this registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than 20% change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement;

(iii) To include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the registration statement.

Provided, however, that paragraphs (a)(1)(i) and (a)(1)(ii) shall not apply if the information required to be included in a post-effective amendment by these paragraphs is contained in reports filed with or furnished to the Commission by the registrant pursuant to Section 13 or Section 15(d) of the Exchange Act that are incorporated by reference in the registration statement.

(2) That, for the purpose of determining any liability under the Securities Act, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

(3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

(b) Incorporation by Reference

The undersigned registrant hereby undertakes that, for purposes of determining any liability under the Securities Act, each filing of the registrant's annual report pursuant to Section 13(a) or Section 15(d) of the Exchange Act (and, where applicable, each filing of an employee benefit plan's annual report pursuant to section 15(d) of the Exchange Act), that is incorporated by reference in the registration statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

(c) Commission Position on Indemnification

Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers and controlling persons of the registrant pursuant to the foregoing provisions, or otherwise, the registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the registrant of expenses incurred or paid by a director, officer or controlling person of the registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act and will be governed by the final adjudication of such issue.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, as amended, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Albuquerque, State of New Mexico, on June 19, 2013.

EMCORE CORPORATION

By: /s/ Mark B. Weinswig
Mark B. Weinswig
Chief Financial Officer

POWER OF ATTORNEY

We, the undersigned directors and officers of EMCORE Corporation do hereby constitute and appoint Hong Q. Hou, Ph.D. and Mark B. Weinswig, jointly and severally, as our true and lawful attorneys-in-fact and agents, to do any and all acts and things in our name and behalf in our capacities as directors and officers and to execute any and all instruments for us and in our names in the capacities indicated below, which said attorney-in-fact and agent may deem necessary or advisable to enable said corporation to comply with the Securities Act of 1933, as amended, and any rules, regulations and requirements of the Securities and Exchange Commission, in connection with this registration statement, including specifically but without limitation, power and authority to sign for us or any of us in our names in the capacities indicated below, any and all amendments (including post-effective amendments) to this registration statement; and we do hereby ratify and confirm all that said attorney and agent shall do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act of 1933, as amended, this registration statement has been signed by the following persons in the capacities and on the dates indicated.

Signature	Title	Date
<u>/s/ Thomas J. Russell, Ph.D</u> Thomas J. Russell, Ph.D	Chairman Emeritus	June 19, 2013
<u>/s/ Reuben F. Richards, Jr.</u> Reuben F. Richards, Jr.	Chairman of the Board	June 19, 2013
<u>/s/ Hong Q. Hou, Ph.D.</u> Hong Q. Hou, Ph.D.	Chief Executive Officer and Director (Principal Executive Officer)	June 19, 2013
<u>/s/ Mark B. Weinswig</u> Mark B. Weinswig	Chief Financial Officer (Principal Financial and Accounting Officer)	June 19, 2013
<u>/s/ Charles T. Scott</u> Charles T. Scott	Director	June 19, 2013
<u>/s/ John Gillen</u> John Gillen	Director	June 19, 2013
<u>/s/ Robert L. Bogomolny</u> Robert L. Bogomolny	Director	June 19, 2013
<u>/s/ Sherman McCorkle</u> Sherman McCorkle	Lead Independent Director	June 19, 2013
<u>/s/ James A. Tegnalia</u> James A. Tegnalia	Director	June 19, 2013

INDEX TO EXHIBITS

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* Filed herewith

919 THIRD AVENUE NEW YORK, NEW YORK 10022

June 19, 2013

EMCORE Corporation
10420 Research Road, S.E.
Albuquerque, NM 87123

Re: EMCORE Corporation
Registration Statement on Form S-8

Ladies and Gentlemen:

We are providing this opinion letter in our capacity as special counsel to EMCORE Corporation, a New Jersey corporation (the "Company"), in connection with the filing by the Company of a registration statement on Form S-8 (the "Registration Statement") under the Securities Act of 1933, as amended (the "Securities Act"), with the United States Securities and Exchange Commission (the "Commission"). The Registration Statement relates to the registration of 250,000 shares of the Company's common stock (the "Shares") that may be issued by the Company pursuant to the terms and provisions of the Company's 2007 Directors' Stock Award Plan, as amended and restated (the "Plan").

You have requested that we render the opinion set forth in this letter and we are furnishing this opinion in accordance with the requirements of Part II, Item 8 of Form S-8 and Item 601(b)(5)(i) of Regulation S-K promulgated by the Commission under the Securities Act.

In connection with the foregoing registration, we have examined originals, or copies certified or otherwise identified to our satisfaction, of (i) the Registration Statement in the form provided to us by the Company, (ii) the Company's Restated Certificate of Incorporation, as amended and restated to date (the "Certificate of Incorporation"), (iii) the Company's By-Laws, as amended and/or restated to date (the "By-Laws"), (iv) certain resolutions of the Board of Directors of the Company relating to the Shares and the registration thereof, and (v) such other documents as we have deemed necessary or appropriate for purposes of rendering the opinion set forth herein.

In our examination, we have assumed the legal capacity of all natural persons, the genuineness of all signatures, the authenticity of all documents submitted to us as certified or photostatic copies and the authenticity of the originals of such latter documents. As to any facts material to the opinion expressed herein that were not independently established or verified by us, we have relied upon statements and representations of officers and other representatives of the Company and others.

We do not express or purport to express any opinions with respect to laws other than the Federal laws of the United States and the New Jersey Business Corporation Act, including the applicable provisions of the New Jersey Constitution and reported judicial decisions interpreting such law.

Based upon and subject to the foregoing, we are of the opinion that the Shares will, if issued and delivered in accordance with the terms and provisions of the Plan, be validly issued, fully paid and non-assessable.

We hereby consent to the filing of this opinion with the Commission as an Exhibit to the Registration Statement. In giving this consent, we do not hereby admit that we are in the category of persons whose consent is required under Section 7 of the Securities Act or the rules and regulations of the Commission promulgated thereunder.

This opinion is limited to the specific issues addressed herein, and no opinion may be inferred or implied beyond that expressly stated herein. We assume no obligation to revise or supplement this opinion should present Federal laws or the present laws of the State of New Jersey be changed by legislative action, judicial decision or otherwise.

Very truly yours,

/s/ Jenner & Block LLP

Jenner & Block LLP

Consent of Independent Registered Public Accounting Firm

The Board of Directors
EMCORE Corporation:

We consent to the use of our reports with respect to the consolidated financial statements and the effectiveness of internal control over financial reporting incorporated by reference herein.

/s/KPMG LLP

Albuquerque, New Mexico
June 19, 2013