PIONEER POWER SOLUTIONS, INC. Form POS AM April 25, 2014

Registration No. 333-164504

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

POST-EFFECTIVE AMENDMENT NO. 5 TO FORM S-1 ON FORM S-3

REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933

PIONEER POWER SOLUTIONS, INC.

(Exact name of registrant as specified in its charter)

Delaware 27-1347616

(State or other jurisdiction of (I.R.S. Employer Identification No.)

incorporation or organization)

400 Kelby Street, 9th Floor

Fort Lee, New Jersey 07024

(212) 867-0700

(Address, including zip code, and telephone number, including area code, of Registrant's principal executive offices)

Nathan Mazurek

Chairman and Chief Executive Officer

400 Kelby Street, 9th Floor

Fort Lee, New Jersey 07024

(212) 867-0700 (Name, address, including zip code, and telephone number, including area code, of agent for service)

Copies of all communications, including communications sent to agent for service, should be sent to:

Rick A. Werner, Esq.

Haynes and Boone, LLP

30 Rockefeller Plaza, 26th Floor

New York, New York 10112

Tel. (212) 659-7300

Fax (212) 884-8234

Approximate date of commencement of proposed sale to the public: From time to time after this Registration Statement becomes effective.

If the only securities being registered on this form are being offered pursuant to dividend or interest reinvestment plans, please check the following box:

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, other than securities offered only in connection with dividend or interest reinvestment plans, check the following box:

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a registration statement filed pursuant to General Instruction I.D. or a post-effective amendment thereto that shall become effective upon filing with the Commission pursuant to Rule 462(e) under the Securities Act, check the following box.

If this Form is a post-effective amendment to a registration statement filed pursuant to General Instruction I.D. filed to register additional securities or additional classes of securities pursuant to Rule 413(b) under the Securities Act, check the following box.

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 definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act.

EXPLANATORY NOTE

This Post-Effective Amendment No. 5 to Form S-1 on Form S-3 is being filed to update our registration statement on Form S-1 (File No. 333-164504) to, among other things, (i) convert the registration statement on Form S-1 into a registration statement on Form S-3, (ii) include the information contained in the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2013, filed on March 14, 2014 and incorporate by reference future filings made with the Securities Exchange Commission, and (iii) make certain other updating revisions to the information contained in the registration statement.

All filing fees payable in connection with the registration of the securities that are subject to this registration statement were previously paid in connection with the filing of the applicable registration statement on Form S-1.

The information in this prospectus is not complete and may be changed. The selling stockholders may not sell
these securities until the registration statement filed with the Securities and Exchange Commission is effective.
This prospectus is not an offer to sell these securities and it is not soliciting an offer to buy these securities in
any state where the offer or sale is not permitted.

SUBJECT TO COMPLETION, DATED APRIL 25, 2014

Pioneer Power Solutions, Inc.
1,400,000 Shares of Common Stock

This prospectus relates to the resale by the selling stockholders identified in this prospectus of up to 1,400,000 shares of our common stock, which includes:

- · 1,000,000 shares of common stock issued in a private placement;
- · 200,000 shares of common stock initially issuable upon the exercise of an outstanding warrant to purchase shares of common stock at an exercise price of \$10.00 per share; and
- · 200,000 shares of common stock initially issuable upon the exercise of an outstanding warrant to purchase shares of common stock at an exercise price of \$16.25 per share.

The selling stockholders may sell shares of common stock from time to time in the principal market on which our common stock is traded at the prevailing market price or in privately negotiated transactions. See "Plan of Distribution" which begins on page 8.

We will not receive any proceeds from the sale of these shares by the selling stockholders. However, we will receive the exercise price of the warrants if the warrants are exercised for cash. All expenses of registration incurred in connection with this offering are being borne by us, but all selling and other expenses incurred by the selling stockholders will be borne by the selling stockholders.

Our common stock is listed on the Nasdaq Capital Market under the symbol "PPSI." On April 24, 2014, the last reported sale price of our common stock as reported on the Nasdaq Capital Market was \$9.50 per share.

We may amend or supplement this prospectus from time to time by filing amendments or supplements as required. You should read the entire prospectus, the information incorporated by reference herein and any amendments or supplements carefully before you make your investment decision.

Investing in our common stock is highly speculative and involves a high degree of risk. You should carefully consider the risks and uncertainties in the section entitled "Risk Factors" beginning on page 4 of this prospectus before making a decision to purchase our stock.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or passed upon the adequacy or accuracy of this prospectus. Any representation to the contrary is a criminal offense.

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ABOUT THIS PROSPECTUS

You should rely only on the information contained in this prospectus or incorporated by reference in this prospectus and in any applicable prospectus supplement. Neither we nor the selling stockholders have authorized anyone to provide you with different information. We and the selling stockholders take no responsibility for, and can provide no assurance as to the reliability of, any other information that others may give you. The information contained in this prospectus, any applicable prospectus supplement and the documents incorporated by reference herein or therein are accurate only as of the date such information is presented. Our business, financial condition, results of operations and prospects may have changed since that date. You should also read this prospectus together with the additional information described under the headings "Incorporation of Certain Information by Reference" and "Where You Can Find More Information." This prospectus may be supplemented from time to time to add, update or change information in this prospectus. Any statement contained in this prospectus will be deemed to be modified or superseded for purposes of this prospectus to the extent that a statement contained in such prospectus supplement modifies or supersedes such statement. Any statement so modified will be deemed to constitute a part of this prospectus only as so modified, and any statement so superseded will be deemed not to constitute a part of this prospectus.

The selling stockholders are offering the common stock only in jurisdictions where such issuances are permitted. The distribution of this prospectus and the issuance of the common stock in certain jurisdictions may be restricted by law. Persons outside the United States who come into possession of this prospectus must inform themselves about, and observe any restrictions relating to, the issuance of the common stock and the distribution of this prospectus outside the United States. This prospectus does not constitute, and may not be used in connection with, an offer to sell, or a solicitation of an offer to buy, the common stock offered by this prospectus by any person in any jurisdiction in which it is unlawful for such person to make such an offer or solicitation.

The registration statement containing this prospectus, including the exhibits to the registration statement, provides additional information about us and the securities offered under this prospectus. The registration statement, including the exhibits, can be read on the Securities and Exchange Commission's website or at the Securities and Exchange Commission's offices mentioned under the heading "Where You Can Find More Information."

PROSPECTUS SUMMARY

This summary provides an overview of selected information contained elsewhere or incorporated by reference in this prospectus and does not contain all of the information you should consider before investing in our common stock. You should carefully read the prospectus, the information incorporated by reference and the registration statement of which this prospectus is a part in their entirety before investing in our common stock, including the information discussed under "Risk Factors" in this prospectus and the documents incorporated by reference and our financial statements and notes thereto that are incorporated by reference in this prospectus. As used in this prospectus, unless the context otherwise indicates, the terms "we," "our," "us," or "the Company" refer to Pioneer Power Solutions, Inc., and, where appropriate, its consolidated subsidiaries.

Overview

We manufacture specialty electrical transmission and distribution equipment and provide a broad range of custom-engineered and general purpose solutions for applications in the utility, industrial and commercial markets. We are headquartered in Fort Lee, New Jersey and operate from eight additional locations in the U.S., Canada and Mexico for manufacturing, centralized distribution, engineering, sales and administration.

Our largest customers, which include a number of recognized national and regional utilities, industrial companies and engineering, procurement and construction firms, are located in North America. In addition, we sell our products through hundreds of electrical distributors served by our network of stocking locations throughout the U.S. and Canada. We intend to grow our business, both through acquisitions and internal product development, by increasing the scope of highly-engineered solutions we offer our customers for their specific electrical applications.

Corporate History

We were originally formed in the State of Nevada in 2008. On November 30, 2009, we merged with and into Pioneer Power Solutions, Inc., a Delaware corporation, for the sole purpose of changing our state of incorporation from Nevada to Delaware and changing our name to "Pioneer Power Solutions, Inc." On September 24, 2013, we completed an underwritten public offering and our common stock began trading on the Nasdaq Capital Market under the symbol PPSI.

Our principal executive offices are located at 400 Kelby Street, 9th Floor, Fort Lee, New Jersey, 07024. Our telephone number is (212) 867-0700. Our website address is http://www.pioneerpowersolutions.com. Information on or accessed through our website is not incorporated into this prospectus and is not a part of this prospectus.

The Offering

Common stock offered 1,400,000 shares, consisting of 1,000,000 shares issued to investors in a private placement,

by the selling 200,000 shares issuable upon the exercise of a warrant issued to Provident Pioneer Partners, stockholders:

L.P. in connection with a share exchange agreement and 200,000 shares issuable upon the

exercise of a warrant sold to an investor.

Common stock

outstanding prior to the

offering: 7,172,255

Common stock

outstanding after this

offering: 7,572,255

Use of proceeds: We will not receive any proceeds from the sale of shares in this offering by the selling

> stockholders. However, we will receive proceeds from the exercise of the warrants if the warrants are exercised for cash. We intend to use those proceeds, if any, for general corporate

All or part of the shares of common stock offered hereby may be sold from time to time in Offering price:

amounts and on terms to be determined by the selling stockholders at the time of sale.

Nasdaq Capital Market

Symbol: **PPSI**

Risk factors: You should carefully consider the information set forth and incorporated by reference in this

> prospectus and, in particular, the specific factors set forth in the "Risk Factors" section beginning on page 4 of this prospectus before deciding whether or not to invest in shares of

our common stock.

The number of outstanding shares of common stock after the offering is based upon 7,172,255 shares outstanding as of April 25, 2014 and assumes the full exercise of all warrants with respect to which the underlying shares are being registered pursuant to the registration statement of which this prospectus forms a part. The number of shares of common stock outstanding after this offering excludes:

- · 280,600 shares of common stock issuable upon the exercise of warrants with a weighted average exercise price of \$13.91 per share;
- · 366,400 shares of common stock issuable upon the exercise of currently outstanding options with a weighted average exercise price of \$9.92 per share; and
 - 333,600 shares of common stock available for future issuance under our 2011 Long-Term Incentive Plan.

RISK FACTORS

Investing in our common stock involves a high degree of risk. You should carefully consider the risks and uncertainties and all other information contained or incorporated by reference in this prospectus, including the risks and uncertainties discussed under "Risk Factors" in our Annual Report on Form 10-K for the fiscal year ended December 31, 2013, which is incorporated herein by reference, as updated or superseded by the risks and uncertainties described under similar headings in the other documents that are filed after the date hereof and incorporated by reference into this prospectus or any prospectus supplement. All of these "Risk Factors" are incorporated by reference herein in their entirety. These risks and uncertainties are not the only ones facing us. Additional risks of which we are not presently aware or that we currently believe are immaterial may also harm our business and results of operations. The trading price of our common stock could decline due to the occurrence of any of these risks, and investors could lose all or part of their investment. In assessing these risks, investors should also refer to the information contained or incorporated by reference in our other filings with the Securities and Exchange Commission.

SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus and the information incorporated by reference contain "forward-looking statements," which include information relating to future events, future financial performance, strategies, expectations, competitive environment and regulation. Words such as "may," "should," "could," "would," "predicts," "potential," "continue," "expects," "anticipates," "intends," "plans," "believes," "estimates," and similar expressions, as well as statements in future tense, identify forward-looking statements. Forward-looking statements should not be read as a guarantee of future performance or results and will probably not be accurate indications of when such performance or results will be achieved. Forward-looking statements are based on information we have when those statements are made or our management's good faith belief as of that time with respect to future events, and are subject to risks and uncertainties that could cause actual performance or results to differ materially from those expressed in or suggested by the forward-looking statements. Important factors that could cause such differences include, but are not limited to:

- · General economic conditions and their effect on demand for electrical equipment, particularly in the commercial construction market, but also in the power generation, industrial production, data center, oil and gas, marine and infrastructure industries.
- · The effects of fluctuations in sales on our business, revenues, expenses, net income, earnings per share, margins and profitability.
- Many of our competitors are better established and have significantly greater resources, and may subsidize their competitive offerings with other products and services, which may make it difficult for us to attract and retain customers.
- · We depend on Hydro-Quebec Utility Company and Siemens Industry, Inc. for a large portion of our business, and any change in the level of orders from Hydro-Quebec Utility Company or Siemens Industry, Inc., could have a significant impact on our results of operations.
- · The potential loss or departure of key personnel, including Nathan J. Mazurek, our chairman, president and chief executive officer.
- · Our ability to expand our business through strategic acquisitions.

- · Our ability to integrate acquisitions and related businesses.
- · Our ability to generate internal growth, maintain market acceptance of our existing products and gain acceptance for our new products.
- · Unanticipated increases in raw material prices or disruptions in supply could increase production costs and adversely affect our profitability.
- · Restrictive loan covenants and/or our ability to repay or refinance debt under our credit facilities could limit our future financing options and liquidity position and may limit our ability to grow our business.
- · Our ability to realize revenue reported in our backlog.
- · Operating margin risk due to competitive pricing and operating efficiencies, supply chain risk, material, labor or overhead cost increases, interest rate risk and commodity risk.
- · Strikes or labor disputes with our employees may adversely affect our ability to conduct our business.

- · A majority of our revenue and a significant portion of our expenditures are derived or spent in Canadian dollars. However, we report our financial condition and results of operations in U.S. dollars. As a result, fluctuations between the U.S. dollar and the Canadian dollar will impact the amount of our revenues and earnings.
- · The impact of geopolitical activity on the economy, changes in government regulations such as income taxes, climate control initiatives, the timing or strength of an economic recovery in our markets and our ability to access capital markets.
- · Our chairman controls a majority of our combined voting power, and may have, or may develop in the future, interests that may diverge from yours.
- · Future sales of large blocks of our common stock may adversely impact our stock price.
- · The liquidity and trading volume of our common stock.

You should review carefully the section entitled "Risk Factors" beginning on page 4 of this prospectus for a discussion of these and other risks that relate to our business and investing in our common stock. The forward-looking statements contained or incorporated by reference in this prospectus are expressly qualified in their entirety by this cautionary statement. We do not undertake any obligation to publicly update any forward-looking statement to reflect events or circumstances after the date on which any such statement is made or to reflect the occurrence of unanticipated events.

USE OF PROCEEDS

We will not receive any proceeds from the sale of common stock by the selling stockholders.

A portion of the shares covered by this prospectus are issuable upon exercise of warrants to purchase our common stock. The warrants have a cashless exercise option. If, however, a selling stockholder were to exercise its warrants for cash, the selling stockholder would pay us the exercise price of the warrants. We intend to use those proceeds, if any, for general corporate purposes.

SELLING STOCKHOLDERS

Up to 1,400,000 shares of common stock are being offered by this prospectus, all of which are being registered for sale for the accounts of the selling stockholders and include the following:

- · shares of common stock that were issued to investors in connection with a private placement on December 2, 2009;
- · 200,000 shares of common stock underlying a five year warrant exercisable at \$10.00 per share that we allowed Genesis Capital Advisors LLC to purchase from us for \$10,000 on December 2, 2009 in consideration for WEC Partners, LLC, an affiliate of Genesis Capital Advisors LLC, serving as our lead investor in our December 2, 2009 private placement; and
- · 200,000 shares of common stock underlying a five year warrant exercisable at \$16.25 per share that was issued to Provident Pioneer Partners, L.P. pursuant to a share exchange agreement on December 2, 2009.

Each of the transactions by which the selling stockholders acquired their securities from us was exempt under the registration provisions of the Securities Act of 1933, as amended.

The shares of common stock referred to above are being registered to permit public sales of the shares, and the selling stockholders may offer the shares for resale from time to time pursuant to this prospectus. The selling stockholders may also sell, transfer or otherwise dispose of all or a portion of their shares in transactions exempt from the registration requirements of the Securities Act of 1933, as amended, or pursuant to another effective registration statement covering those shares. We may from time to time include additional selling stockholders in supplements or amendments to this prospectus.

The table below sets forth certain information regarding the selling stockholders and the shares of our common stock offered by them in this prospectus. The selling stockholders have not had a material relationship with us within the past three years other than as described in the footnotes to the table below or as a result of their acquisition of our shares or other securities. To our knowledge, subject to community property laws where applicable, each person named in the table has sole voting and investment power with respect to the shares of common stock set forth opposite such person's name.

Beneficial ownership is determined in accordance with the rules of the Securities and Exchange Commission. In computing the number of shares beneficially owned by a selling stockholder and the percentage of ownership of that selling stockholder, shares of common stock underlying warrants held by that selling stockholder that are exercisable within 60 days of April 25, 2014 are included. Those shares, however, are not deemed outstanding for the purpose of computing the percentage ownership of any other selling stockholder. Each selling stockholder's percentage of ownership of our outstanding shares in the table below is based upon 5,907,255 shares of common stock outstanding as of April 25, 2014. With respect to the warrant held by Genesis Capital Advisors LLC, there exists a contractual provision limiting exercise to the extent such exercise would cause Genesis Capital Advisors LLC, together with its

affiliates or members of a "group", to beneficially own a number of shares of common stock that would exceed 4.99% of our then outstanding shares of common stock following such exercise. The shares and percentage ownership of our outstanding shares indicated in the table below do not give effect to this limitation.