

94538-3158

(510)

657-2635

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

Amos Kohn

**Chief
Executive
Officer**

**Digital
Power
Corporation**

48430

**Lakeview
Blvd.**

Fremont, CA

94538-3158

(510)

657-2635

(Name, address, including zip code, and telephone number, including area code, of agent of service)

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

Perry Wildes, Adv.
Gross, Kleinhendler, Hodak, Halevy, Greenberg & Co.
One Azrieli Center
Tel Aviv 67021, Israel

Approximate Date of Commencement of Proposed Sale to the Public: From time to time after this registration statement becomes effective, subject to market conditions and other factors.

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 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.

Large accelerated filer

Accelerated filer

Non-accelerated filer

(Do not check if a smaller reporting company) Smaller reporting company

CALCULATION OF REGISTRATION FEE

Title of each class of	Amount to be	Proposed maximum	Proposed maximum	Amount of
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securities to be registered	registered (1)(2)	offering price per unit (1)(2)	aggregate offering price (2)	registration fee
Primary Offering:				
Common Stock, no par value				
Warrants				
Rights (3)				
Units				
Subtotal:	\$2,000,000		\$2,000,000	\$232.40
Secondary Offering:				
Common Stock, no par value				
(4)	600,000	\$0.96	\$576,000 (5)	\$66.93
Total:			\$2,576,000	\$299.33

Includes an unspecified number of securities of each identified class is being registered as may from time to time be offered by the Registrant at unspecified prices. Also includes an indeterminate number of common stock as may be issued by the registrant upon exercise, conversion or exchange of any securities that provide for such issuance, or that may from time to time become issuable by reason of any stock split, stock dividend or similar transaction, for which no separate consideration will be received by registrant. In no event will the aggregate offering price of all types of securities issued by the registrant pursuant to this registration statement exceed \$2,000,000. Any securities registered hereunder may be sold separately or together with other securities registered hereunder, including as Units hereunder.

- (2) Pursuant to General Instruction II.D of Form S-3, information as to each class of securities to be registered is not specified.
- (3) Each Right will represent rights to purchase shares of common stock or other securities covered by this registration statement.
- (4) Represents shares of common stock registered for resale by the selling shareholder.

(5) Estimated solely for purposes of calculating the amount of registration fee pursuant to Rule 457(c) under the Securities Act, as amended, and based upon the average of the high and low prices of the Registrant's common stock as reported on the NYSE MKT on May 8, 2015.

The registrant hereby amends this registration statement on such date or dates as may be necessary to delay its effective date until the registrant shall file a further amendment which specifically states that this registration statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933 or until the registration statement shall become effective on such date as the Commission, acting pursuant to said Section 8(a), may determine.

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

Subject to Completion, Dated May 15, 2015

PRELIMINARY PROSPECTUS

DIGITAL POWER CORPORATION

\$2,000,000

Common Stock

Warrants

Rights

Units

And

600,000 shares of Common Stock offered by the selling shareholder

We may offer and sell from time to time, in one or more series or issuances and on terms that we will determine at the time of the offering, any combination of the securities described in this prospectus, up to an aggregate amount of \$2,000,000. In addition, the selling shareholder listed on page 10 of this prospectus may offer and resell from time to time up to 600,000 shares of common stock. We will not receive any proceeds from the sale of common stock by the selling shareholder.

This prospectus provides you with a general description of the securities we and the selling shareholder may offer.

Each time we sell securities pursuant to this prospectus, or, if required under the Securities Act of 1933, as amended, the selling shareholder sells securities, we will provide a prospectus supplement that will contain specific information about the terms of that offering. The prospectus supplement may also add to, update or change information contained in the prospectus and, accordingly, to the extent inconsistent, information in this prospectus is superseded by the information in the prospectus supplement.

You should read this prospectus and any prospectus supplement, as well as the documents incorporated or deemed to be incorporated by reference in this prospectus and described under the heading “Where You Can Find More Information; Incorporation by Reference”, carefully before you invest.

These securities may be offered and sold in the same offering or in separate offerings; to or through underwriters, dealers, and agents; or directly to purchasers at prevailing market prices or in privately negotiated transactions. See “Plan of Distribution”. The names of any underwriters, dealers, or agents involved in the sale of our securities, their compensation and any over-allotment options held by them will be described in the applicable prospectus supplement.

Our common stock is traded on NYSE MKT under the symbol “DPW”. On May 12, 2015, the aggregate market value of our common stock held by non – affiliates was \$3,318,910, based on 6,775,971 shares of outstanding common stock, of which 3,729,112 were held by non – affiliates, and a per share price of \$0.89 based on the closing sale price of our common stock on May 12, 2015. We have not offered any securities pursuant to General Instruction I.B.6 on Form S-3 during the prior 12 calendar month period that ends on and includes the date of this prospectus.

Investing in our securities involves risks. See “Risk Factors” beginning on page 2 of this prospectus and in the applicable prospectus supplement and under similar headings in other documents incorporated by reference into this prospectus.

Neither the U.S. Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus or any accompanying prospectus supplement is truthful or complete. Any representation to the contrary is a criminal offense.

The date of this prospectus is _____, 2015

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ABOUT THIS PROSPECTUS

This prospectus is part of a registration statement that we filed with the U.S. Securities and Exchange Commission, or SEC, using a “shelf” registration process. Under this process, we may, from time to time, offer and sell any combination of the securities described in this prospectus in one or more offerings up to a total amount of \$2,000,000 and the selling shareholder may sell up to 600,000 shares of common stock in one or more offerings. This prospectus, together with applicable prospectus supplements and any related free writing prospectuses, provides you with a general description of the securities we and the selling shareholder may offer. Each time we sell securities, or if required under the Securities Act of 1933, as amended, when the selling shareholder sells securities, we will provide a prospectus supplement that will contain specific information about the terms of that offering. The prospectus supplement may also add, update, or change information contained in this prospectus. You should read both this prospectus and any prospectus supplement or other offering materials together with additional information described under the heading “Where You Can Find More Information; Incorporation by Reference.”

You should rely only on the information contained or incorporated by reference in this prospectus and in any supplement to this prospectus or, if applicable, any other offering materials we may provide you. We have not authorized any other person to provide you with different information. If anyone provides you with different or inconsistent information, you should not rely on it. This prospectus is an offer to sell only the securities offered hereby, but only under circumstances and in jurisdictions where it is lawful to do so. You should assume that the information appearing in this prospectus, any accompanying prospectus supplement or any other offering materials is accurate only as of the date on their respective covers, and you should assume that the information appearing in any document incorporated or deemed to be incorporated by reference in this prospectus or any accompanying prospectus supplement is accurate only as of the date that document was filed with the SEC. Our business, financial condition, results of operations and prospects may have changed since those dates.

References to “Digital Power”, the “Company,” “we,” “us” or “our” are to Digital Power Corporation, a company organized under the laws of the State of California (the “Registrant”), and its wholly-owned subsidiaries.

THE COMPANY

We are a solution-driven organization that designs, develops, manufactures and sells high-grade customized and flexible power system solutions for the most demanding applications in the medical, military, telecom and industrial markets. We are highly focused on high-grade and custom product designs for both the commercial, medical, and military/defense markets, where customers demand high density, high efficiency and ruggedized products to meet the harshest and/or military mission critical operating conditions. Our common stock trades on the NYSE MKT under the symbol “DPW”. Our corporate headquarters are located in the heart of the Silicon Valley.

We also have a wholly-owned subsidiary, Digital Power Limited (“DPL”), which operates under the brand name of “Gresham Power Electronics” (“Gresham”). DPL is located in Salisbury, England, and designs, manufactures and sells power products and system solutions mainly for the European marketplace, including power conversion, power

distribution equipment, DC/AC (Direct Current/Active Current) inverters and UPS (Uninterrupted Power Supply) products. DPL's defense business has specialists in the field of naval applications of power distribution conversion.

We believe that we are one of the first companies in the power solutions industry to introduce a product strategy based on the premise that products developed with an extremely flexible architecture enable rapid modifications to meet unique customer requirements for non-standard output voltages. The development and implementation of this strategy has resulted in broad acceptance in the telecom/industrial, and increasingly in the medical market segments for our new line of high density and high efficiency power products. These products set an industry standard for providing high-power output in package sizes that are among the smallest available for such commercial products.

We market and sell our products to many diverse market segments, including the telecom, industrial, medical and military/defense industries. Our products serve a global market, with an emphasis on North America and Europe. We offer a broad product variety, including a full custom product design, standard and modified-standard products. Our unique high-speed switching power rectifiers includes but are not limited to custom power products, front-end, open-frame, enclosed, *Compact* PCI, MicroTCA, PoE (Power over Ethernet) and other product solutions, providing power output from 50 to 24,000 watts.

In an effort to provide short lead-times, high quality products and competitive pricing to support our markets, we have entered into production agreements with several contract manufacturers located in Asia, primarily in China. These agreements allow us to better control production costs and ensure high quality products deliverable in a timely manner to meet market demand.

We intend to remain an innovative leader in the development of cutting-edge custom power solutions and feature rich products to meet any customer needs and requirements, rugged power systems to meet harsh and extreme operation environmental requirements, and high performance, high efficiency, high-density and modular power systems. We are currently focused on developing even more high-grade custom power system solutions for numerous customers in a broadly diversified range of markets and challenging environments. Each product development is based on best of class performance criteria, including unique, advanced feature sets and a special layout to meet our customers' unique operating conditions where efficiency, size and time to market are key to their success.

Our corporate name is Digital Power Corporation for both legal and commercial purposes. We are located at 48430 Lakeview Blvd., Fremont, California, 94538-3158 (telephone number (510) 657-2635). We were organized under the laws of the State of California in 1969 and are subject to the California Corporation Code, or the "Corporation Code". Our website address is www.digipwr.com. The information on our website does not constitute part of this prospectus. Our registered agent in the United States is Mr. Amos Kohn, located at 48430 Lakeview Blvd., Fremont, California, 94538-3158.

RISK FACTORS

An investment in our securities is speculative and involves a high degree of risk. Our business, financial condition or results of operations could be adversely affected by any of these risks. You should carefully consider the following factors as well as the other information contained in this prospectus, in any supplement to this prospectus and in the other reports that we file with the SEC and that we incorporate by reference into this prospectus, before deciding to invest in our securities. The risks and uncertainties we have described are not the only ones we face. Additional risks and uncertainties not presently known to us or that we currently deem immaterial may also affect our operations. Past financial performance may not be a reliable indicator of future performance, and historical trends should not be used to anticipate results or trends in future periods. If any of these risks actually occurs, our business, business prospects, financial condition or results of operations could be seriously harmed. This could cause the trading price of our shares of common stock to decline, resulting in a loss of all or part of your investment. Please also read carefully the section below entitled "Forward-Looking Statements."

We generated an operating and net loss during the years ended December 31, 2014 and December 31, 2013, we have historically experienced operating and net losses, and we may experience such losses in the future.

For the year ended December 31, 2014, we had an operating loss of \$542,000 and a net loss of \$658,000 compared to an operating loss of \$317,000 and a net loss of \$632,000 for the year ended December 31, 2013. Although we have actively taken steps to increase our revenue and reduce manufacturing and operating costs, we may incur operating and net losses in the future unless we continue to increase revenues by selling current and custom design products and continue seeking manufacturing cost reductions through contract manufacturers.

We depend on Telkooor to design and manufacture some of our products and depend on a manufacturing rights agreement with Telkooor under which we have the right to directly place purchase orders with third party manufacturers.

We depend on Telkooor Telecom Ltd. ("Telkooor"), our largest shareholder and one of our third party subcontractors, for design and manufacturing capabilities for some of the products that we sell. If Telkooor is unable or unwilling to continue designing or manufacturing our products in required volumes and with a certain level of quality on a timely basis, that could lead to loss of sales and adversely affect our operating results and cash position. We also depend on Telkooor's intellectual property and ability to transfer production to third party manufacturers. Failure to obtain new products in a timely manner or delay in delivery of products to customers will have an adverse effect on our ability to meet our customers' expectations. In addition, we operate in highly competitive markets where our ability to sell Telkooor's products could be adversely affected by Telkooor's agreements with other companies, long lead-times and the high cost of Telkooor's products. Also, in 2012, Telkooor's manufacturing lead-times increased, which has hindered our ability to respond to our customers' needs. Telkooor's principal offices, research and development and manufacturing facilities are located in Israel. Political, economic, and military conditions in Israel directly affect Telkooor's operations. We are also dependent upon Telkooor's terms and conditions with its contract manufacturers for some of our products, which terms and conditions may not always be in our best interest. In 2010, the Company purchased certain IP from Telkooor in order to reduce its dependency on Telkooor with respect to a certain line of products. We also entered into a Manufacturing Rights Agreement with Telkooor, in 2012, pursuant to which we were granted the non-exclusive right to directly place purchase orders for certain products from third party manufacturers in consideration for payment of royalties to Telkooor. This agreement currently accounts for a significant portion of our sales. In the event this agreement is terminated for any reason, it would materially affect our profitability and cash position.

If Telkoo is unable to continue operating as a going concern, our operational and financial results may be significantly adversely affected. Due to extensive losses incurred by Telkoo during 2014 and resultant limited liquidity, Telkoo's auditors expressed doubt regarding the continued existence of Telkoo as a going concern in its audit opinion regarding Telkoo's financial statements for the 2014 year end. If Telkoo is unable to rectify its current liquidity problem, there is the possibility that Telkoo will not be able to continue operating in the coming year. We may lose our ability to continue manufacturing product under our Manufacturing Rights Agreement with Telkoo, we may lose our ability to collect on accounts receivable due from Telkoo and may be forced to fully impair our investment in Telkoo which may significantly adversely affect our operational and financial results.

We are dependent upon our ability, and our contract manufacturers' ability, to timely procure electronic components.

Because of the global economy, many raw material vendors have reduced capacities, closed production lines and, in some cases, even discontinued their operations. As a result, there is a global shortage of certain electronic components, which has extended our production lead-time and our production costs. Some materials are no longer available to support some of our products, thereby requiring us to search for cross materials or, even worse, redesign some of our products to support currently-available materials. Such redesign efforts may require certain regulatory and safety agency re-submittals, which may cause further production delays. While we have initiated actions that we believe will limit our exposure to such problems, the dynamic business conditions in many of our markets may challenge the solutions that have been put in place, and issues may recur in the future.

In addition, some of our products are manufactured, assembled and tested by third party subcontractors and contract manufacturers located in Asia. While we have had relationships with many of these third parties in the past, we cannot predict how or whether these relationships will continue in the future. In addition, changes in management, financial viability, manufacturing demand or capacity, or other factors, at these third parties could hurt our ability to manufacture our products.

Our strategic focus on our custom power supply solution competencies and concurrent cost reduction plans may be ineffective or may limit our ability to compete.

As a result of our strategic focus on custom power supply solutions, we will continue to devote significant resources to developing and manufacturing custom power supply solutions for a large number of customers, where each product represents a uniquely tailored solution for a specific customer's requirements. Failure to meet these customer product requirements or a failure to meet production schedules and/or product quality standards may put us at risk with one or more of these customers. Moreover, changes in market conditions and strategic changes at the direction of our customers may affect their decision to continue to purchase from us. The loss of one or more of our significant custom power supply solution customers could have a material adverse impact on our revenues, business or financial condition.

We have also implemented a series of initiatives designed to increase efficiency and reduce costs. While we believe that these actions will reduce costs, they may not be sufficient to achieve the required operational efficiencies that will enable us to respond more quickly to changes in the market or result in the improvements in our business that we anticipate. In such event, we may be forced to take additional cost-reducing initiatives, including those involving Company personnel, which may negatively impact quarterly earnings and profitability as we account for severance and other related costs. In addition, there is the risk that such measures could have long-term adverse effects on our business by reducing our pool of talent, decreasing or slowing improvements in our products or services, making it more difficult for us to respond to customers, limiting our ability to increase production quickly if and when the demand for our solutions increases and limiting our ability to hire and retain key personnel. These circumstances could cause our earnings to be lower than they otherwise might be.

We are dependent upon our ability to attract, retain and motivate our key personnel.

Our success depends on our ability to attract, retain and motivate our key management personnel, including, but not limited to, our President and CEO, our V.P. of Finance, marketing and sales personnel, and key engineers necessary to implement our business plan and to grow our business. Competition for certain specific technical and management skill sets is intense. If we are unable to identify and hire the personnel that we need to succeed, or if one or more of our present key employees were to cease to be associated with us, our future results could be adversely affected. Mr. Kohn continues to serve in his role as our President and CEO. However, Mr. Kohn's employment agreement expired on December 31, 2010, and as of May 11, 2015, Mr. Kohn and the Company had not signed a new employment agreement.

We depend upon a few major customers for a majority of our revenues, and the loss of any of these customers, or the substantial reduction in the quantity of products that they purchase from us, would significantly reduce our revenues and net income.

We currently depend upon a few major OEMs and other customers for a significant portion of our revenues. We have experienced a reduction of orders by OEMs and a reduction or cancellation of orders, scaling back of certain activities and workforce layoffs by other customers. We had one customer that accounted for more than 10% of total revenue for the three months ended March 31, 2015. The loss of any of these customers, or a substantial reduction in the quantity of products that they purchase from us, would significantly reduce our revenues and net income. Furthermore, diversions in the capital spending of certain of these customers to new network elements have and could continue to lead to their reduced demand for our products, which could, in turn, have a material adverse effect on our business and results of operations. If the financial condition of one or more of our major customers should deteriorate, or if they have difficulty acquiring investment capital due to any of these or other factors, a substantial decrease in our revenues would likely result.

We are dependent on the electronic equipment industry, and accordingly will be affected by the impact on that industry of current economic conditions.

Substantially all of our existing customers are in the electronic equipment industry, and they manufacture products that are subject to rapid technological change, obsolescence, and large fluctuations in demand. This industry is further characterized by intense competition and volatility. The OEMs serving this industry are pressured for increased product performance and lower product prices. OEMs, in turn, make similar demands on their suppliers, such as us, for increased product performance and lower prices. Such demands may adversely affect our ability to successfully compete in certain markets or our ability to sustain our gross margins.

Our reliance on subcontract manufacturers to manufacture certain aspects of our products involves risks, including delays in product shipments and reduced control over product quality.

Since we do not own significant manufacturing facilities, we must rely on, and will continue to rely on, a limited number of subcontract manufacturers to manufacture our power supply products. Our reliance upon such subcontract manufacturers involves several risks, including reduced control over manufacturing costs, delivery times, reliability and quality of components, unfavorable currency exchange fluctuations, and continued inflationary pressures on many of the raw materials used in the manufacturing of our power supply products. If we were to encounter a shortage of key manufacturing components from limited sources of supply, or experience manufacturing delays caused by reduced manufacturing capacity, inability of our subcontract manufacturers to procure raw materials, the loss of key assembly subcontractors, difficulties associated with the transition to our new subcontract manufacturers or other factors, we could experience lost revenues, increased costs, and delays in, or cancellations or rescheduling of, orders or shipments, any of which would materially harm our business.

We outsource, and are dependent upon developer partners for, the development of some of our custom design products.

We made an operational decision to outsource some of our custom design products to numerous developer partners. This business structure will remain in place until the custom design volume justifies expanding our in house capabilities. Incomplete product designs that do not fully comply with the customer specifications and requirements might affect our ability to transition to a volume production stage of the custom designed product where the revenue goals are dependent on the high volume of custom product production. Furthermore, we rely on the design partners' ability to provide high quality prototypes of the designed product for our customer approval as a critical stage to approve production.

We face intense industry competition, price erosion and product obsolescence, which, in turn, could reduce our profitability.

We operate in an industry that is generally characterized by intense competition. We believe that the principal bases of competition in our markets are breadth of product line, quality of products, stability, reliability and reputation of the provider, along with cost. Quantity discounts, price erosion, and rapid product obsolescence due to technological improvements are therefore common in our industry as competitors strive to retain or expand market share. Product obsolescence can lead to increases in unsaleable inventory that may need to be written off and, therefore, could reduce our profitability. Similarly, price erosion can reduce our profitability by decreasing our revenues and our gross margins. In fact, we have seen price erosion over the last several years on most of the products we sell, and we expect additional price erosion in the future.

Our future results are dependent on our ability to establish, maintain and expand our manufacturers' representative OEM relationships and our other relationships.

We market and sell our products through domestic and international OEM relationships and other distribution channels, such as manufacturers' representatives and distributors. Our future results are dependent on our ability to establish, maintain and expand our relationships with OEMs as well as with manufacturers' representatives and distributors to sell our products. If, however, the third parties with whom we have entered into such OEM and other arrangements should fail to meet their contractual obligations, cease doing, or reduce the amount of their, business with us or otherwise fail to meet their own performance objectives, customer demand for our products could be adversely affected, which would have an adverse effect on our revenues.

We may not be able to procure necessary key components for our products, or we may purchase too much inventory or the wrong inventory.

The power supply industry, and the electronics industry as a whole, can be subject to business cycles. During periods of growth and high demand for our products, we may not have adequate supplies of inventory on hand to satisfy our customers' needs. Furthermore, during these periods of growth, our suppliers may also experience high demand and, therefore, may not have adequate levels of the components and other materials that we require to build products so that we can meet our customers' needs. Our inability to secure sufficient components to build products for our customers could negatively impact our sales and operating results. We may choose to mitigate this risk by increasing the levels of inventory for certain key components. Increased inventory levels can increase the potential risk for excess and obsolescence should our forecasts fail to materialize or if there are negative factors impacting our customers' end markets. If we purchase too much inventory or the wrong inventory, we may have to record additional inventory reserves or write-off the inventory, which could have a material adverse effect on our gross margins and on our results of operations.

We depend on sales of our legacy products for a meaningful portion of our revenues, but these products are mature and their sales will continue to decline.

A relatively large portion of our sales have historically been attributable to our legacy products. We expect that these products may continue to account for a meaningful percentage of our revenues for the foreseeable future. However, these sales are declining. Although we are unable to predict future prices for our legacy products, we expect that prices for these products will continue to be subject to significant downward pressure in certain markets for the reasons described above. Accordingly, our ability to maintain or increase revenues will be dependent on our ability to expand our customer base, to increase unit sales volumes of these products and to successfully, develop, introduce and sell new products such as custom design and value added products. We cannot assure you that we will be able to expand our customer base, increase unit sales volumes of existing products or develop, introduce and/or sell new products.

Our operating results may vary from quarter to quarter.

Our operating results have in the past been subject to quarter-to-quarter fluctuations, and we expect that these fluctuations will continue, and may increase in magnitude, in future periods. Demand for our products is driven by many factors, including the availability of funding for our products in our customers' capital budgets. There is a trend for some of our customers to place large orders near the end of a quarter or fiscal year, in part to spend remaining available capital budget funds. Seasonal fluctuations in customer demand for our products driven by budgetary and other concerns can create corresponding fluctuations in period-to-period revenues, and we therefore cannot assure you that our results in one period are necessarily indicative of our revenues in any future period. In addition, the number and timing of large individual sales and the ability to obtain acceptances of those sales, where applicable, have been difficult for us to predict, and large individual sales have, in some cases, occurred in quarters subsequent to those we anticipated, or have not occurred at all. The loss or deferral of one or more significant sales in a quarter could harm our operating results. It is possible that, in some quarters, our operating results will be below the expectations of public market analysts or investors. In such events, or in the event adverse conditions prevail, the market price of our common stock may decline significantly.

Failure of our information technology infrastructure to operate effectively could adversely affect our business.

We depend heavily on information technology infrastructure to achieve our business objectives. If a problem occurs that impairs this infrastructure, the resulting disruption could impede our ability to record or process orders, manufacture and ship in a timely manner, or otherwise carry on business in the normal course. Any such events could cause us to lose customers or revenue and could require us to incur significant expense to remediate.

We are subject to certain governmental regulatory restrictions relating to our international sales.

Some of our products are subject to ITAR rules, which are interpreted, enforced and administered by the U.S. Department of State. ITAR controls not only the export, import and trade of certain products specifically designed, modified, configured or adapted for military systems, but also the export of related technical data and defense services as well as foreign production. Any delays in obtaining the required export, import or trade licenses for products subject to ITAR rules could have a material adverse effect on our business, financial condition, and/or operating results. In addition, changes in United States export and import laws that require us to obtain additional export and import licenses or delays in obtaining export or import licenses currently being sought could cause significant shipment delays and, if such delays are too great, could result in the cancellation of orders. Any future restrictions or charges imposed by the United States or any other country on our international sales or foreign subsidiary could have a materially adverse effect on our business, financial condition, and/or operating results. In addition, from time to time, we have entered into contracts with the Israeli Ministry of Defense which were governed by the U.S. Foreign Military Financing program (FMF). Any such future sales would be subject to these regulations. Failure to comply with ITAR or FMF rules could have a material adverse affect on our financial condition, and/or operating results.

We depend on international operations for a substantial majority of our components and products.

We purchase a substantial majority of our components from foreign manufacturers and have a substantial majority of our commercial products assembled, packaged, and tested by subcontractors located outside the United States. These activities are subject to the uncertainties associated with international business operations, including trade barriers and other restrictions, changes in trade policies, governmental regulations, currency exchange fluctuations, reduced protection for intellectual property, war and other military activities, terrorism, changes in social, political, or economic conditions, and other disruptions or delays in production or shipments, any of which could have a materially adverse effect on our business, financial condition, and/or operating results.

We depend on international sales for a portion of our revenues.

Sales to customers outside of North America accounted for 50.4% of net revenues in the year ended December 31, 2014 and for 51.2% of net revenues in the year ended December 31, 2013 and we expect that international sales will continue to represent a material portion of our total revenues. International sales are subject to the risks of international business operations as described above, as well as generally longer payment cycles, greater difficulty collecting accounts receivable, and currency restrictions. In addition, DPL, our wholly-owned subsidiary in the United Kingdom, supports our European and other international customers, distributors, and sales representatives, and therefore is also subject to local regulation. International sales are also subject to the export laws and regulations of the United States and other countries.

If our accounting controls and procedures are circumvented or otherwise fail to achieve their intended purposes, our business could be seriously harmed.

We evaluate our disclosure controls and procedures as of the end of each fiscal quarter, and are annually reviewing and evaluating our internal control over financial reporting in order to comply with Securities and Exchange Commission rules relating to internal control over financial reporting adopted pursuant to the Sarbanes-Oxley Act of 2002. Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate. If we fail to maintain effective internal control over financial reporting or our management does not timely assess the adequacy of such internal control, we may be subject to regulatory sanctions, and our reputation may decline.

The sale of our products is dependent upon our ability to satisfy the proprietary requirements of our customers.

We depend upon a relatively narrow range of products for the majority of our revenue. Our success in marketing our products is dependent upon their continued acceptance by our customers. In some cases, our customers require that our products meet their own proprietary requirements. If we are unable to satisfy such requirements, or forecast and adapt to changes in such requirements, our business could be materially harmed.

The sale of our products is dependent on our ability to respond to rapid technological change, including evolving industry-wide standards, and may be adversely affected by the development, and acceptance by our customers, of new technologies which may compete with, or reduce the demand for, our products.

Rapid technological change, including evolving industry standards, could render our products obsolete. To the extent our customers adopt such new technology in place of our products, the sales of our products may be adversely affected. Such competition may also increase pricing pressure for our products and adversely affect the revenues from such products.

Our limited ability to protect our proprietary information and technology may adversely affect our ability to compete, and our products could infringe upon the intellectual property rights of others, resulting in claims against us, the results of which could be costly.

Many of our products consist entirely or partly of proprietary technology owned by us. Although we seek to protect our technology through a combination of copyrights, trade secret laws and contractual obligations, these protections may not be sufficient to prevent the wrongful appropriation of our intellectual property, nor will they prevent our competitors from independently developing technologies that are substantially equivalent or superior to our proprietary technology. In addition, the laws of some foreign countries do not protect our proprietary rights to the same extent as the laws of the United States. In order to defend our proprietary rights in the technology utilized in our products from third party infringement, we may be required to institute legal proceedings, which would be costly and would divert our resources from the development of our business. If we are unable to successfully assert and defend our proprietary rights in the technology utilized in our products, our future results could be adversely affected.

Although we attempt to avoid infringing known proprietary rights of third parties in our product development efforts, we may become subject to legal proceedings and claims for alleged infringement from time to time in the ordinary course of business. Any claims relating to the infringement of third-party proprietary rights, even if not meritorious, could result in costly litigation, divert management's attention and resources, require us to reengineer or cease sales of our products or require us to enter into royalty or license agreements which are not advantageous to us. In addition,

parties making claims may be able to obtain an injunction, which could prevent us from selling our products in the United States or abroad.

If we are unable to satisfy our customers' specific product quality, certification or network requirements, our business could be disrupted and our financial condition could be harmed.

Our customers demand that our products meet stringent quality, performance and reliability standards. We have, from time to time, experienced problems in satisfying such standards. Defects or failures have occurred in the past, and may in the future occur, relating to our product quality, performance and reliability. From time to time, our customers also require us to implement specific changes to our products to allow these products to operate within their specific network configurations. If we are unable to remedy these failures or defects or if we cannot effect such required product modifications, we could experience lost revenues, increased costs, including inventory write-offs, warranty expense and costs associated with customer support, delays in, or cancellations or rescheduling of, orders or shipments and product returns or discounts, any of which would harm our business.

If we ship products that contain defects, the market acceptance of our products and our reputation will be harmed and our customers could seek to recover their damages from us.

Our products are complex, and despite extensive testing, may contain defects or undetected errors or failures that may become apparent only after our products have been shipped to our customers and installed in their network or after product features or new versions are released. Any such defect, error or failure could result in failure of market acceptance of our products or damage to our reputation or relations with our customers, resulting in substantial costs for us and our customers as well as the cancellation of orders, warranty costs and product returns. In addition, any defects, errors, misuse of our products or other potential problems within or out of our control that may arise from the use of our products could result in financial or other damages to our customers. Our customers could seek to have us pay for these losses. Although we maintain product liability insurance, it may not be adequate.

Our common stock price is volatile.

Our common stock is listed on the NYSE MKT. In the past, our trading price has fluctuated widely, depending on many factors that may have little to do with our operations or business prospects. The exercise of outstanding options and warrants may adversely affect our stock price and a shareholder's percentage of ownership. As of May 11, 2015, we had outstanding options to purchase an aggregate of 1,227,763 shares of common stock, with a weighted average exercise price of \$1.57 per share, exercisable at prices ranging from \$0.68 to \$1.79 per share.

FORWARD-LOOKING STATEMENTS

This prospectus and the documents incorporated by reference in it contain forward-looking statements regarding future events and our future results that are subject to the safe harbors created under the Securities Act of 1933 and the Securities Exchange Act of 1934. All statements other than statements of historical facts are statements that could be deemed forward-looking statements. These statements are based on our expectations, beliefs, forecasts, intentions and future strategies and are signified by the words "expects," "anticipates," "intends," "believes" or similar language. In addition, any statements that refer to projections of our future financial performance, our anticipated growth and trends in our business and other characterizations of future events or circumstances are forward-looking statements. These forward-looking statements are only predictions and are subject to risks, uncertainties, and assumptions that are difficult to predict, including those identified above, under "Risk Factors" and elsewhere in this report. Therefore, actual results may differ materially and adversely from those expressed in any forward-looking statements. All forward-looking statements included in this prospectus are based on information available to us on the date of this report and speak only as of the date hereof.

The Company disclaims any current intention to update its “forward looking statements,” and the estimates and assumptions within them, at any time or for any reason. In particular, the following factors, among others, could cause actual results to differ materially from those described in the “forward looking statements”: (a) the possibility of operating and net losses in the future; (b) dependency on Telkoo to design and manufacture products; (c) dependency on our ability, and the ability of our contract manufacturers, to timely procure electronic components; (d) the potential ineffectiveness of the Company’s strategic focus on power supply solution competencies; (e) dependency on developer partners for the development of some of our custom design products; (f) dependency on sales of our legacy products for a meaningful portion of our revenues; (g) the possible failure of the Company’s custom product development efforts to result in products which meet customers’ needs or such customers’ failure to accept such new products; (h) the ability of the Company to attract, retain and motivate key personnel; (i) dependence on a few major customers; (j) dependence on the electronic equipment industry; (k) reliance on third party subcontract manufacturers to manufacture certain aspects of the products sold by the Company; (l) reduced profitability as a result of increased competition, price erosion and product obsolescence within the industry; (m) the ability of the Company to establish, maintain and expand its OEM relationships and other distribution channels; (n) the inability of the Company to procure necessary key components for its products, or the purchase of excess or the wrong inventory; (o) variations in operating results from quarter to quarter; (p) dependence on international sales and the impact of certain governmental regulatory restrictions on such international sales and operations; and other risk factors included in the Company’s most recent filings with the U.S. Securities and Exchange Commission, including, but not limited to, the Company’s Forms 10-K, 10-Q and 8-K. All filings are also available on the Company’s website at www.digipwr.com.

USE OF PROCEEDS

Unless otherwise indicated in an accompanying prospectus supplement, we will use the net proceeds from the sale of securities offered by us under this prospectus for general corporate purposes, which may include working capital, capital expenditures, other corporate expenses and acquisitions of complementary products, technologies or businesses. We have not yet determined the amount of net proceeds to be used specifically for any of the foregoing purposes. As a result, unless otherwise indicated in an accompanying prospectus supplement, our management will have broad discretion to allocate the net proceeds of the offerings. We will not receive any proceeds from the sale of shares of common stock by the selling shareholder.

SELLING SHAREHOLDER

The following table contains information regarding the number and percentage of common stock beneficially owned by the selling shareholder as of May 11, 2015 based on the information provided to us by such selling shareholder. This information does not necessarily indicate beneficial ownership for any other purpose. The table assumes that all shares of common stock offered for sale in the prospectus are sold. The selling shareholder is not under any obligation to sell all or any portion of its common stock, nor is it obligated to sell any of its common stock immediately under this prospectus. Since the selling shareholder is not obligated to sell its common stock, we do not know how many shares of common stock it will own when this offer is terminated. In determining the number of shares of common stock beneficially owned by the selling shareholder and the percentage ownership of the selling shareholder, we include any shares as to which such selling shareholder has sole or shared voting power or investment power, as well as any shares subject to warrants or options held by the selling shareholder that are currently exercisable or are exercisable within 60 days after May 11, 2015. Applicable percentages are based on 6,775,971 shares of common stock outstanding as of May 11, 2015.

Name and Address Of Beneficial Owner	Shares of Common Stock		Number of Shares of Common Stock Registered Beneficially Owned Hereby for Sale	Shares of Common Stock	
	Beneficially Owned Prior to the Offering	Percent		Beneficially Owned After the Offering	Percent
	<u>Number</u>	<u>Percent</u>		<u>Number</u>	<u>Percent</u>
Telkoor Telecom Ltd.(1)					
5 Giborei Israel Netanya 42293 Israel	2,874,610 (2)	42.42%	600,000	2,274,610	33.57%

- Telkoo Telecom Ltd. ("Telkoo") is our beneficial shareholder. We sell certain products that are developed, manufactured and sold to us by Telkoo and are party to a Manufacturing Agreement with Telkoo. See "Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters" and "Item 13. Certain Relationships and Related Transactions, and Director Independence" in Form 10-K filed on March 27, 2015. Mr. Ben-Zion Diamant, the chairman of our Board of Directors, is the chief executive officer and director of Telkoo and its controlling shareholder.
- (1) Telkoo is the indirect parent company of Telkoo Power Suppliers Ltd. ("TPS"). This amount represents 1,574,610 shares held directly by Telkoo and 1,300,000 shares held directly by TPS, referred to in this table.

DESCRIPTION OF Common stock

The Company's Common Stock to be offered under this registration statement is registered under Section 12 of the Exchange Act. We are authorized to issue up to 30,000,000 shares of common stock, no par value, and 2,000,000 shares of preferred stock, no par value. As of May 11, 2015, there were 6,775,971 shares of common stock outstanding and no shares of preferred stock outstanding.

Common Stock

Each shareholder is entitled to one vote for each share of common stock held on all matters submitted to a vote of shareholders. Each holder of common stock has the right to cumulate his votes, which means each share shall have the number of votes equal to the number of directors to be elected and all of which votes may be cast for any one nominee. Subject to such preferences as may apply to any preferred stock outstanding at the time, the holders of outstanding shares of common stock are entitled to receive dividends out of assets legally available therefor at such times and in such amounts as the board of directors may from time to time determine. The common stock is not entitled to preemptive rights and is not subject to conversion or redemption. Upon the liquidation, dissolution, or winding up of the company, the holders of common stock and any participating preferred stock outstanding at that time would be entitled to share ratably in all assets remaining after the payment of liabilities and the payment of any liquidation preferences with respect to any outstanding preferred stock. Each outstanding share of common stock now is, and all shares of common stock that will be outstanding will be, fully paid and non-assessable.

DESCRIPTION OF WARRANTS

We may issue warrants for the purchase of our common stock. Warrants may be issued independently or together with our common stock and may be attached to or separate from any offered securities. Each series of warrants will be issued under a separate warrant agreement to be entered into between us and a bank or trust company, as warrant agent. The warrant agent will act solely as our agent in connection with the warrants. The warrant agent will not have any obligation or relationship of agency or trust for or with any holders or beneficial owners of warrants. This summary of certain provisions of the warrants is not complete. For the terms of a particular series of warrants, you should refer to the prospectus supplement for that series of warrants and the warrant agreement for that particular series.

The prospectus supplement relating to a particular series of warrants to purchase our common stock will describe the terms of the warrants, including the following:

- the title of the warrants;
- the offering price for the warrants, if any;
- the aggregate number of warrants
- the designation and terms of the common stock that may be purchased upon exercise of the warrants;
- if applicable, the designation and terms of the securities with which the warrants are issued and the number of warrants issued with each security;
- if applicable, the date from and after which the warrants and any securities issued with the warrants will be separately transferable;
- the number of shares of common stock that may be purchased upon exercise of a warrant and the exercise price for the warrants;

- the dates on which the right to exercise the warrants shall commence and expire;
- if applicable, the minimum or maximum amount of the warrants that may be exercised at any one time;
- the currency or currency units in which the offering price, if any, and the exercise price are payable;
- if applicable, a discussion of material U.S. federal income tax considerations;
- the anti - dilution provisions of the warrants, if any;
- the redemption or call provisions, if any, applicable to the warrants;
- any provisions with respect to the holder's right to require us to repurchase the warrants upon a change in control or similar event; and
- any additional terms of the warrants, including procedures, and limitations relating to the exchange, exercise and settlement of the warrants.

The description in the applicable prospectus supplement of any warrants we offer will not necessarily be complete and will be qualified in its entirety by reference to the applicable warrant agreement, which will be filed with the SEC if we offer warrants. For more information on how you can obtain copies of the applicable warrant agreement if we offer warrants, see "Where You Can Find More Information; Incorporation by Reference" beginning on page 14. We urge you to read the applicable warrant agreement and any applicable prospectus supplement in their entirety.

DESCRIPTION OF RIGHTS

We may issue rights to purchase our securities. The rights may or may not be transferable by the persons purchasing or receiving the rights. In connection with any rights offering, we may enter into a standby underwriting or other arrangement with one or more underwriters or other persons pursuant to which such underwriters or other persons would purchase any offered securities remaining unsubscribed for after such rights offering.

The prospectus supplement relating to any rights that we offer will include specific terms relating to the offering, including, among other matters:

- the price, if any, for the rights;
- the exercise price payable for each share of common stock upon the exercise of the rights;
- the number of rights to be issued to each shareholder;
- the number and terms of the shares of common stock which may be purchased per each right;
- the extent to which the rights are transferable;
- any other terms of the rights, including the terms, procedures and limitations relating to the exchange and exercise of the rights;
- the date on which the right to exercise the rights shall commence, and the date on which the rights shall expire;
- the extent to which the rights may include an over-subscription privilege with respect to unsubscribed securities; and
 - if applicable, the material terms of any standby underwriting or purchase arrangement which may be entered into by us in connection with the offering of rights.

Each right would entitle the holder of the rights to purchase for cash the principal amount of securities at the exercise price set forth in the applicable prospectus supplement. Rights may be exercised at any time up to the close of business on the expiration date for the rights provided in the applicable prospectus supplement. After the close of business on the expiration date, all unexercised rights will become void.

If less than all of the rights issued in any rights offering are exercised, we may offer any unsubscribed securities directly to persons other than our security holders, to or through agents, underwriters or dealers or through a combination of such methods, including pursuant to standby arrangements, as described in the applicable prospectus supplement.

The description in the applicable prospectus supplement of any rights we offer will not necessarily be complete and will be qualified in its entirety by reference to the applicable rights agreement, which will be filed with the SEC if we offer rights. For more information on how you can obtain copies of the applicable subscription right agreement if we offer subscription rights, see “Where You Can Find More Information; Incorporation by Reference” beginning on page 14. We urge you to read the applicable rights agreement and any applicable prospectus supplement in their entirety.

DESCRIPTION OF UNITS

We may issue units comprised of one or more of the other securities that may be offered under this prospectus, in any combination. Each unit will be issued so that the holder of the unit is also the holder of each security included in the unit. Thus, the holder of a unit will have the rights and obligations of a holder of each included security. The unit

agreement under which a unit is issued may provide that the securities included in the unit may not be held or transferred separately at any time, or at any time before a specified date.

The prospectus supplement relating to any units we offer, if any, will, to the extent applicable, include specific terms relating to the offering, including some or all of the following:

- the material terms of the units and of the securities comprising the units, including whether and under what circumstances those securities may be held or transferred separately;
- any material provisions relating to the issuance, payment, settlement, transfer or exchange of the units or of the securities comprising the units; and
- any material provisions of the governing unit agreement that differ from those described above.

The description in the applicable prospectus supplement of any units we offer will not necessarily be complete and will be qualified in its entirety by reference to the applicable unit agreement, which will be filed with the SEC if we offer units. For more information on how you can obtain copies of the applicable unit agreement if we offer units, see “Where You Can Find More Information; Incorporation by Reference” beginning on page 14. We urge you to read the applicable unit agreement and any applicable prospectus supplement in their entirety.

plan of distribution

We or the selling shareholder may sell the securities being offered hereby in one or more of the following methods from time to time:

a block trade (which may involve crosses) in which the broker or dealer so engaged will attempt to sell the securities as agent but may position and resell a portion of the block as principal to facilitate the transaction; purchases by a broker or dealer as principal and resale by such broker or dealer for its own account pursuant to this prospectus;

exchange distributions and/or secondary distributions;

ordinary brokerage transactions and transactions in which the broker solicits purchasers;

to one or more underwriters for resale to the public or to investors;

in “at the market offerings,” within the meaning of Rule 415(a)(4) of the Securities Act of 1933, as amended (the “Securities Act”), to or through a market maker or into an existing trading market, on an exchange or otherwise;

transactions not involving market makers or established trading markets, including direct sales or privately negotiated transactions;

transactions in options, swaps or other derivatives that may or may not be listed on an exchange;

any other method permitted by applicable law; or

through a combination of these methods of sale.

The securities that we or the selling shareholder distribute by any of these methods may be sold, in one or more transactions, at:

a fixed price or prices, which may be changed;

market prices prevailing at the time of sale;

prices related to prevailing market prices; or

negotiated prices.

A prospectus supplement will set forth the terms of the offering of securities, including:

the name or names of any agents or underwriters;

the purchase price of the securities being offered and the proceeds we or the selling shareholder will receive from the sale;

any over-allotment options under which underwriters may purchase additional securities from us;

any agency fees or underwriting discounts and other items constituting agents’ or underwriters’ compensation;

the public offering price;

any discounts or concessions allowed or reallocated or paid to dealers; and

any securities exchanges or markets on which such securities may be listed.

If underwriters are used in the sale, they will acquire the securities for their own account and may resell the securities from time to time in one or more transactions, including negotiated transactions, at a fixed public offering price or at varying prices determined at the time of sale, or under delayed delivery contracts or other contractual commitments. The obligations of the underwriters to purchase the securities will be subject to the conditions set forth in the applicable underwriting agreement. We or the selling shareholder may offer the securities to the public through underwriting syndicates represented by managing underwriters or by underwriters without a syndicate. Subject to certain conditions, the underwriters will be obligated to purchase all of the securities offered by the prospectus supplement, other than securities covered by any over-allotment option. Any public offering price and any discounts or concessions allowed or reallocated or paid to dealers may change from time to time. We or the selling shareholder may use underwriters with whom we or the selling shareholder have a material relationship. The prospectus supplement will describe the name of the underwriters and the nature of any such relationship.

We or the selling shareholder may sell securities directly or through agents we designate from time to time, and we may solicit offers to purchase securities. We will name any agent involved in the offering and sale of securities and we will describe any commissions we or the selling shareholder will pay the agent in the prospectus supplement. Unless the prospectus supplement states otherwise, our agent or the agent of the selling shareholder will act on a best-efforts basis for the period of its appointment.

We or the selling shareholder may also sell securities directly to one or more purchasers without using underwriters or agents. These persons may be deemed to be underwriters as defined in the Securities Act with respect to the resale of the securities.

Underwriters, dealers and agents that participate in the distribution of the securities may be deemed underwriters as defined in the Securities Act and any discounts or commissions they receive from us and any profit on their resale of the securities may be treated as underwriting discounts and commissions under the Securities Act. The applicable prospectus supplement will identify any underwriters, dealers or agents and will describe their compensation. We or the selling shareholder may have agreements with the underwriters, dealers and agents to indemnify them against specified civil liabilities, including liabilities under the Securities Act, or to contribution by us or the selling shareholder to payments they may be required to make in respect of such liabilities. Underwriters, dealers and agents may engage in transactions with or perform services for us in the ordinary course of their businesses.

Any underwriters to whom offered securities are sold for public offering and sale may make a market in such offered securities, but such underwriters will not be obligated to do so and may discontinue any market making at any time without notice. The offered securities may or may not be listed on a national securities exchange. No assurance can be given that there will be a market for the offered securities.

The warrants, rights and units that we or the selling shareholder may offer will be new issues of securities with no established trading market. Any underwriters may make a market in these securities, but will not be obligated to do so and may discontinue any market making at any time without notice. We and the selling shareholder cannot guarantee the liquidity of the trading markets for any securities.

Unless otherwise specified in the applicable prospectus supplement, each class or series of securities will be a new issue with no established trading market, other than our shares of common stock, which are listed on NYSE MKT. We may elect to list any other class or series of securities on any exchange, but we are not obligated to do so. It is possible that one or more underwriters may make a market in a class or series of securities, but the underwriters will not be obligated to do so and may discontinue any market making at any time without notice. We cannot give any assurance as to the liquidity of the trading market for any of the securities.

Any person participating in the distribution of securities registered under the registration statement that includes this prospectus will be subject to applicable provisions of the Securities Exchange Act of 1934, as amended, or the Exchange Act, and the applicable SEC rules and regulations, including, among others, Regulation M, which may limit the timing of purchases and sales of any of our securities by that person. Furthermore, Regulation M may restrict the ability of any person engaged in the distribution of our securities to engage in market-making activities with respect to our securities. These restrictions may affect the marketability of our securities and the ability of any person or entity to engage in market-making activities with respect to our securities.

Certain persons participating in an offering may engage in over-allotment, stabilizing transactions, short-covering transactions, penalty bids and other transactions that stabilize, maintain or otherwise affect the price of the offered securities. These activities may maintain the price of the offered securities at levels above those that might otherwise prevail in the open market, including by entering stabilizing bids, effecting syndicate covering transactions or

imposing penalty bids, each of which is described below.

A stabilizing bid means the placing of any bid, or the effecting of any purchase, for the purpose of pegging, fixing or maintaining the price of a security.

A syndicate covering transaction means the placing of any bid on behalf of the underwriting syndicate or the effecting of any purchase to reduce a short position created in connection with the offering.

A penalty bid means an arrangement that permits the managing underwriter to reclaim a selling concession from a syndicate member in connection with the offering when offered securities originally sold by the syndicate member are purchased in syndicate covering transactions.

These transactions may be effected on an exchange or automated quotation system, if the securities are listed on that exchange or admitted for trading on that automated quotation system, or in the over-the-counter market or otherwise.

In connection with offerings made through underwriters or agents, we or the selling shareholder may enter into agreements with such underwriters or agents pursuant to which we or the selling shareholder receive our outstanding securities in consideration for the securities being offered to the public for cash. In connection with these arrangements, the underwriters or agents may also sell securities covered by this prospectus to hedge their positions in these outstanding securities, including in short sale transactions. If so, the underwriters or agents may use the securities received from us under these arrangements to close out any related open borrowings of securities.

We or the selling shareholder may enter into derivative transactions with third parties or sell securities not covered by this prospectus to third parties in privately negotiated transactions. If the applicable prospectus supplement indicates, in connection with those derivatives, such third parties (or affiliates of such third parties) may sell securities covered by this prospectus and the applicable prospectus supplement, including in short sale transactions. If so, such third parties (or affiliates of such third parties) may use securities pledged by us or borrowed from us or others to settle those sales or to close out any related open borrowings of shares, and may use securities received from us in settlement of those derivatives to close out any related open borrowings of shares. The third parties (or affiliates of such third parties) in such sale transactions will be underwriters and, if not identified in this prospectus, will be identified in the applicable prospectus supplement (or a post-effective amendment).

We or the selling shareholder may loan or pledge securities to a financial institution or other third party that in turn may sell the securities using this prospectus. Such financial institution or third party may transfer its short position to investors in our securities or in connection with a simultaneous offering of other securities offered by this prospectus or in connection with a simultaneous offering of other securities offered by this prospectus.

LEGAL MATTERS

In connection with particular offerings of our common stock in the future, and unless otherwise indicated in any applicable prospectus supplement, the validity of the common stock will be passed upon for us by Weintraub Tobin Chediak Coleman Grodin Law Corporation, our California counsel.

EXPERTS

The consolidated financial statements as of December 31, 2013, and 2014 and for each of the three years in the period ended December 31, 2014 and management's assessment of the effectiveness of internal control over financial reporting as of December 31, 2014 incorporated by reference in this Prospectus have been so incorporated in reliance on the reports of Kost Forer Gabbay & Kasierer, a Member of Ernst & Young Global, an independent registered public accounting firm, incorporated herein by reference, given on the authority of said firm as experts in auditing and accounting.

WHERE YOU CAN FIND MORE INFORMATION; INCORPORATION BY REFERENCE

We are subject to the reporting requirements of the Securities Exchange Act of 1934, as amended, or the "Exchange Act". We file reports, including annual reports on Form 10-K, and other information with the SEC pursuant to the rules

and regulations of the SEC. You may read and copy any materials filed with the SEC at its Public Reference Room at 100 F Street, N.E., Washington, D.C. 20549. You may obtain information on the operation of the Public Reference Room by calling the SEC at 1-800-SEC-0330. Our SEC filings are also available over the Internet at the SEC's website at <http://www.sec.gov>.

This prospectus is part of the registration statement and does not contain all of the information included in the registration statement. Whenever a reference is made in this prospectus to any of our contracts or other documents, the reference may not be complete and, for a copy of the contract or document, you should refer to the exhibits that are a part of the registration statement.

The SEC allows us to incorporate by reference the information that we file with the SEC, which means that we can disclose important information to you by referring you to those documents. The information incorporated by reference is considered to be part of this prospectus. These documents may include periodic reports, such as Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q and Current Reports on Form 8-K, as well as Proxy Statements. Any documents that we subsequently file with the SEC will automatically update and replace the information previously filed with the SEC. Thus, for example, in the case of a conflict or inconsistency between information set forth in this prospectus and information incorporated by reference into this prospectus, you should rely on the information contained in the document that was filed later. Any documents that we file with the SEC after the date of this Registration Statement and prior to the effectiveness of this Registration Statement also shall be deemed to be incorporated by reference into this prospectus.

We incorporate by reference into this prospectus the following documents:

Our annual report on Form 10-K for the year ended December 31, 2014, filed with the SEC on March 27, 2015;
Our quarterly report on Form 10-Q for the quarterly period ended March 31, 2015;
Our current reports on Form 8-K filed with the SEC on February 27, 2015 and March 5, 2015; and

The description of our common stock contained in Form 424 (b)4 (SEC File No. 333-49640), filed with the SEC on January 9, 2001, and any amendment or report filed for the purpose of updating such description.

In addition, we incorporate by reference into this prospectus any filings we make with the SEC pursuant to Section 13(a), 13(c), 14 or 15(d) of the Exchange Act after the date of the initial registration statement of which this prospectus is a part and prior to the effectiveness of the registration statement, and any filings we make with the SEC pursuant to Section 13(a), 13(c), 14 or 15(d) of the Exchange Act from the date of this prospectus until the termination of this offering (in each case, except for the information furnished under Item 2.02 or Item 7.01 in any current report on Form 8-K and Form 8-K/A).

We will provide you, without charge upon written or oral request, a copy of any and all of the information that has been incorporated by reference in this prospectus and that has not been delivered with this prospectus. Requests should be directed to Digital Power Corporation., 48430 Lakeview Blvd., Fremont, California, 94538-3158; Tel.: (510) 657-2635; Attention: Vice President of Finance.

DIGITAL POWER CORPORATION

Common Stock

Warrants

Rights

Units

PROSPECTUS

PART II**INFORMATION NOT REQUIRED IN PROSPECTUS****Item 14. Other Expenses of Issuance and Distribution**

SEC registration fee	\$299.33
Legal fees and expenses	30,000.00
Accounting fees and expenses	5,000.00
Printing	
Miscellaneous	
Total	\$35,299.33

* All fees and expenses other than the SEC registration fee are estimated. The expenses listed above will be paid by Digital Power Corporation.

Item 15. Indemnification of Directors and Officers

Sections 204 and 317 of the Corporation Code indemnification of directors, officers, employees, and other agents of corporations under certain conditions subject to certain limitations. Article IV of the Company's Amended and Restated Articles of Incorporation (the "Articles") provides that the liability of the directors for monetary damages shall be eliminated to the fullest extent permissible under California Law. Article V of the Company's Articles states that the Company may provide indemnification of its agents, including its officers and directors, for breach of duty to the Company and its stockholders in excess of the indemnification otherwise permitted by Section 317 of the Corporations Code, subject to the limits on such excess indemnification set forth in Section 204 of the Corporations Code. Article VI of the Bylaws of Digital Power Corporation provides that the Company shall, to the maximum extent and in the manner permitted in the Corporations Code, indemnify each of its agents, including its officers and directors, against expenses, judgments, fines, settlements, and other amounts actually and reasonably incurred in connection with any proceeding arising by reason of the fact any such person is or was an agent of the Company.

Pursuant to Section 317 of the Corporations Code, the Company is empowered to indemnify any person who was or is a party or is threatened to be made a party to any proceeding (other than an action by or in the right of the Company to procure a judgment in its favor) by reason of the fact that such person is or was an officer, director, employee, or other agent of the Company or its subsidiaries, against expenses, judgments, fines, settlements, and other amounts actually and reasonably incurred in connection with such proceeding, if such person acted in good faith and in a manner such person reasonably believed to be in the best interests of the Company and, in the case of a criminal proceeding, has no

reasonable cause to believe the conduct of such person was unlawful. In addition, the Company may indemnify, subject to certain exceptions, any person who was or is a party or is threatened to be made a party to any threatened, pending, or completed action by or in the right of the Company to procure a judgment in its favor by reason of the fact that such person is or was an officer, director, employee, or other agent of the Company or its subsidiaries, against expenses actually and reasonably incurred by such person in connection with the defense or settlement of such action if such person acted in good faith and in a manner such person believed to be in the best interest of the Company and its shareholders. The Company may advance expenses incurred in defending any proceeding prior to final disposition upon receipt of an undertaking by the agent to repay that amount if it shall be determined that the agent is not entitled to indemnification as authorized by Section 317. In addition, the Company is permitted to indemnify its agents in excess of Section 317.

Item 16. Exhibits

The index to exhibits appears below on the page immediately following the signature pages of this Registration Statement.

Item 17. Undertakings

(1) The undersigned registrant hereby undertakes:

(a) 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 of 1933, or the Securities Act;

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 this 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

(ii) 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 Securities and Exchange Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20% change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement; and

(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 this Registration Statement;

provided, however, that paragraphs (i), (ii) and (iii) above do not apply if the information required to be included in a post-effective amendment by those paragraphs is contained in periodic reports filed with or furnished to the Commission by the registrant pursuant to Section 13 or Section 15(d) of the Securities Exchange Act of 1934, or the Exchange Act that are incorporated by reference in this Registration Statement or is contained in a form of prospectus filed pursuant to Rule 424(b) that is part of the Registration Statement.

that, for the purpose of determining any liability under the Securities Act, each such post-effective amendment (b) 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) 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.

(d) that, for the purpose of determining any liability under the Securities Act to any purchaser:

(i) each prospectus filed by the registrant pursuant to Rule 424(b)(3) shall be deemed to be a part of the registration statement as of the date the filed prospectus was deemed part of and included in the registration statement; and

(ii) each prospectus required to be filed pursuant to Rule 424(b)(2), (b)(5) or (b)(7) as part of a registration statement in reliance on Rule 430B relating to an offering made pursuant to Rule 415(a)(1)(i), (vii) or (x) for the purpose of providing the information required by Section 10(a) of the Securities Act shall be deemed to be part of and included in the registration statement as of the earlier of the date such form of prospectus is first used after effectiveness or the date of the first contract of sale of securities in the offering described in the prospectus. As provided in Rule 430B, for liability purposes of the issuer and any person that is at that date an underwriter, such date shall be deemed to be a new effective date of the registration statement relating to the securities in the

registration statement to which the prospectus relates, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof; provided, however, that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of contract of sale prior to such effective date, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such effective date; or

(iii) if the registrant is subject to Rule 430C, each prospectus filed pursuant to Rule 424(b) as part of a registration statement relating to an offering, other than registration statements relying on Rule 430B or other than prospectuses filed in reliance on Rule 430A, shall be deemed to be part of and included in the registration statement as of the date it is first used after effectiveness.

that, for the purpose of determining liability of a registrant under the Securities Act to any purchaser in the initial distribution of the securities, the undersigned registrant undertakes that in a primary offering of securities of the undersigned registrant pursuant to this registration statement, regardless

(e) of the underwriting method used to sell the securities to the purchaser, if the securities are offered or sold to such purchaser by means of any of the following communications, the undersigned registrant will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:

- (i) any preliminary prospectus or prospectus of the undersigned registrant to the offering required to be filed pursuant to Rule 424;
- (ii) any free writing prospectus relating to the offering prepared by or on behalf of the undersigned registrant or used or referred to by an undersigned registrant;
- (iii) the portion of any other free writing prospectus relating to the offering containing material information about the undersigned registrant or its securities provided by or on behalf of the undersigned registrant; and
- (iv) any other communication that is an offer in the offering made by the undersigned registrant to the purchaser.

(2) 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 this Registration Statement shall be deemed to be a new registration statement relating to the securities offered herein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

(3) 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 provisions referred to in Item 15, 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.

(4) The undersigned registrant hereby undertakes that, for purposes of determining any liability under the Securities Act, the information omitted from the form of prospectus filed as part of this Registration Statement in reliance upon Rule 430A and contained in a form of prospectus filed by the registrant pursuant to Rule 424(b)(1) or (4) or 497(h) under the Securities Act shall be deemed to be part of this Registration Statement as of the time it was declared effective.

(5) The undersigned registrant hereby undertakes that, for the purpose of determining any liability under the Securities Act, each post-effective amendment that contains a form of prospectus 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.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing this Form S-3, and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the city of Fremont, in the State of California, on May 15, 2015.

DIGITAL POWER CORPORATION

By: /s/ Amos Kohn
Name: Amos Kohn
Title: President & Chief Executive Officer
(principal executive officer)

KNOW ALL PERSONS BY THESE PRESENTS, each director and officer whose signature appears below constitutes and appoints, Amos Kohn or William J. Hultzman, or either of these, his true and lawful attorney-in-fact and agent, with full power of substitution and re-substitution, to sign in any and all capacities any and all amendments or post-effective amendments to this registration statement on Form S-3, and to sign any and all additional registration statements relating to the same offering of securities of the Registration Statement that are filed pursuant to Rule 462(b) of the Securities Act, and to file the same with all exhibits thereto and other documents in connection therewith with the Securities and Exchange Commission, granting such attorney-in-fact and agent full power and authority to do all such other acts and execute all such other documents as he may deem necessary or desirable in connection with the foregoing, as fully as the undersigned may or could do in person, hereby ratifying and confirming all that such attorney-in-fact and agent may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act of 1933, this Registrant Statement has been signed by the following persons in the capacities and on the dates indicated.

Signatures	Title	Date
<u>/s/ Amos Kohn</u> Amos Kohn	President & Chief Executive Officer (principal executive officer and director)	May 15, 2015

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/s/ William J. Hultzman

William J. Hultzman VP of Finance (principal financial officer and principal accounting officer) May 15, 2015

/s/ Ben – Zion Diamant

Ben-Zion Diamant Chairman of the Board May 15, 2015

/s/ Robert O. Smith

Robert O. Smith Director May 15, 2015

/s/ Aaron Ben – Ze'ev

Aaron-Ze'ev Director May 15, 2015

/s/ Haim Yatim

Haim Yatim Director May 15, 2015

EXHIBIT INDEX

The following is a list of all exhibits filed as a part of the registration statement on Form S-3, including those incorporated by reference:

Exhibit No. Document

1.1	Form of Underwriting Agreement *
3.1	Amended and Restated Articles of Incorporation of Digital Power Corporation (1)
3.2	Amendment to the Articles of Incorporation (1)
3.3	Amendment to the Articles of Incorporation (2)
3.4	Bylaws of Digital Power Corporation (1)
4.1	Specimen Common Stock Certificate (3)
4.3	Form of Warrant Agreement (including Form of Warrant Certificate).*
4.4	Form of Rights Agreement (including Form of Rights Certificate).*
4.5	Form of Unit Agreement (including Form of Unit Certificate).*
5.1	Opinion of Weintraub Tobin Chediak Coleman Grodin Law Corporation.**
23.1	Consent of Kost Forer Gabbay & Kasierer, a Member of Ernst & Young Global **
23.2	Consent of Weintraub Tobin Chediak Coleman Grodin Law Corporation (included in the opinion filed as Exhibit 5.1)
24.1	Powers of Attorney (included in signature page to Registration Statement).

(1) Previously filed with the Commission on October 16, 1996, to the Company's Registration Statement on Form SB-2.

(2) Previously filed with the Commission as Exhibit 3.1 to the Company's Form 8-K filed December 9, 2013.

(3) Previously filed with the Commission on December 3, 1996, to the Company's Pre-Effective Amendment No. 1 to Registration Statement on Form SB-2/A.

* To be filed either by amendment or as an exhibit to a Current Report on Form 8-K and incorporated by reference herein, if applicable.

** Filed herewith.