

Ascent Solar Technologies, Inc.

Form 424B3

December 21, 2015

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Filed Pursuant to Rule 424(b)(3)

Registration No. 333-208277

PROSPECTUS

ASCENT SOLAR TECHNOLOGIES, INC.

30,000,000 shares of common stock

This prospectus relates to the offer and sale of up to 30,000,000 shares of common stock of Ascent Solar Technologies, Inc. by Redwood Management, LLC, or Redwood Management or the selling stockholder. We are not selling any securities under this prospectus and we will not receive any proceeds from the sale of shares by the selling stockholder.

This prospectus includes 2,640,000 shares of common stock issuable in connection with a committed equity line purchase agreement dated November 10, 2015 that we entered into with the selling stockholder. See “The Committed Equity Line Transaction” for a description of that agreement and “Selling Stockholder” for additional information regarding the selling stockholder.

The selling stockholder may sell the shares of common stock described in this prospectus in a number of different ways and at varying prices. See “Plan of Distribution” for more information about how the selling stockholder may sell the shares of common stock being registered pursuant to this prospectus. The selling stockholder is an “underwriter” within the meaning of Section 2(a)(11) of the Securities Act of 1933, as amended (the “Securities Act”).

Our common stock is traded on the NASDAQ Capital Market under the symbol “ASTI.” On December 18, 2015, the last reported sale price of our common stock on the NASDAQ Capital Market was \$0.153 per share.

Our principal executive offices are located at 12300 North Grant Street, Thornton, Colorado 80241.

These are speculative securities. Investing in these securities involves significant risks. You should purchase these securities only if you can afford a complete loss of your investment. See “Risk Factors” beginning on page 6.

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

NEITHER THE SECURITIES AND EXCHANGE COMMISSION NOR ANY STATE SECURITIES COMMISSION HAS APPROVED OR DISAPPROVED OF THESE SECURITIES OR PASSED UPON THE ADEQUACY OR ACCURACY OF THIS PROSPECTUS. ANY REPRESENTATION TO THE CONTRARY IS A CRIMINAL OFFENSE.

The date of this prospectus is December 18, 2015

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ABOUT THIS PROSPECTUS

You should rely only on the information contained or incorporated by reference in this prospectus or a prospectus supplement. 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. You should not assume that the information appearing in this prospectus, any prospectus supplement or any document incorporated by reference is accurate as of any date other than its date, regardless of the time of delivery of the prospectus or prospectus supplement or any sale of securities. Our business, financial condition, results of operations and prospects may have changed since those dates.

PROSPECTUS SUMMARY

This summary highlights information contained in this prospectus. While we believe that this summary highlights some of the most important information about Ascent Solar Technologies, Inc. and this offering, you should read this entire prospectus and the documents incorporated by reference carefully, including “Risk Factors,” before deciding to invest in our securities. In this prospectus, references to “we,” “us,” “our,” “Ascent,” “Ascent Solar” or the “Company” mean Ascent Solar Technologies, Inc.

Overview

We are a development stage company formed in October 2005 to commercialize flexible photovoltaic (“PV”) modules using proprietary technology. Our technology was initially developed at ITN Energy Systems, Inc. beginning in 1994 and subsequently assigned and licensed to us. Our proprietary manufacturing process deposits multiple layers of materials, including a thin film of highly efficient copper-indium-gallium-diselenide (“CIGS”) semiconductor material, on a flexible, lightweight, high tech plastic substrate using a roll-to-roll manufacturing process and then laser patterns the layers to create interconnected PV cells, or PV modules, in a process known as monolithic integration.

We believe that our technology and manufacturing process, which results in a lighter, flexible module package, provides us with unique market opportunities relative to both the crystalline silicon (“c-Si”) based PV manufacturers that currently lead the PV market, as well as other thin film PV manufacturers that use substrate materials such as glass, stainless steel or other metals that can be heavier and more rigid than plastics.

We believe that the use of CIGS on a flexible, durable, lightweight, high tech plastic substrate will allow for unique and seamless integration of our PV modules into a variety of electronic products, building materials, defense, transportation and space applications, as well as other products and applications that may emerge.

Recent Strategic Developments

Introduction of EnerPlex™ Consumer Products

In February 2012, we began to reposition our business model with an immediate focus on developing downstream consumer products. In June 2012, we launched our EnerPlex™ line of consumer products, and introduced our first product, the Surfr™, under the EnerPlex brand. The Surfr™ is a battery and solar case for the Apple® iPhone® 4/4S smart phone, featuring our ultra-light CIGS thin film technology integrated directly into the case.

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The case incorporates our ultra-light and thin PV module into a sleek, protective iPhone® 4/4S case, along with a thin, life extending, battery. The charger adds minimal weight and size to an iPhone® smartphone, yet provides supplemental charging when needed. In August of 2012, we announced the launch of the second version of the Surfr™ for the Samsung® Galaxy S® III, which provides 85% additional battery life.

In December 2012, we launched the EnerPlex Kickr™ and EnerPlex Jumpr™ product series. The Kickr IV is an extremely portable, compact and durable solar charging device, approximately seven inches by seven inches when folded, and weighs less than half a pound. The Kickr IV provides 6.5 watts of regulated power that can help charge phones, digital cameras, and other small USB enabled devices. The Kickr IV is ideal for outdoor activities such as camping, hiking and mountain climbing as well as daily city use. To complement the Kickr IV, we also released the Jumpr series of portable power banks in December of 2012. The Jumpr series provides a compact power storage solution for those who need to take the power of the sun with them while on the go.

During 2013, our EnerPlex brand rapidly expanded with the addition of two new product series as well as over fifteen new products. In the beginning of 2013, we introduced further additions to the Jumpr line of portable power banks; releasing the Jumpr Mini and Jumpr Stack in August and the Jumpr Max in September. The latest additions to the Kickr line of portable solar chargers, the Kickr I and Kickr II, were introduced in August 2013. Furthermore, in October 2013, we released our first series of solar integrated backpacks, the Packr, for consumer use. The Packr is a fashion forward and functional pack perfect for charging mobile electronic devices while on the go. Also in October 2013, we introduced the Surfr battery and solar case for the Samsung Galaxy S® 4, and in December 2013, we introduced the Surfr battery and solar case for Apple's iPhone® 5. In January 2015, we introduced the Surfr battery and solar case for Apple's iPhone® 6. In addition, we added an assortment of useful accessories to our product lines, all of which can be integrated into the EnerPlex ecosystem of products; such as the LED wand which can be easily plugged into a Jumpr power bank to provide hours of light, or the Travel Adaptor, which enables consumers to charge up their Jumpr power banks from a traditional outlet anywhere in the world. During 2014, we introduced the Jumpr Slate 10K and 5K, which are thin lithium polymer portable power banks.

We continue to aggressively pursue new distribution channels for the EnerPlex brand. These activities have led to placement in a variety of high-traffic ecommerce venues such as www.walmart.com, www.bestbuy.com, www.amazon.com, www.newegg.com as well as many others including our own e-commerce platform at www.goenerplex.com. The April 2013 placement of EnerPlex products at Fry's Electronics, a US West Coast consumer electronics retailer, represented our first domestic retail presence. EnerPlex products are carried in all of Fry's 34 stores across 9 states. Each store is provided with EnerPlex branded merchandising assets to highlight the uniqueness of our product lines. In February 2015, we announced that our EnerPlex products would be available in over 300 Verizon Wireless stores through our retail partner The Cellular Connection. We believe this multi-faceted strategy will give the EnerPlex™ brand the broadest exposure for the amount of investment and make our products immediately available to large numbers of consumers. In the third quarter of 2015, EnerPlex expanded its presence to 456 total TCC Verizon Wireless Premium retailers, adding 156 stores.

During the first quarter of 2015, we reached an agreement with EVINE Live, one of the premier home shopping networks with TV programming that reaches over 87 million US homes, to begin selling EnerPlex products during their broadcasts. During the second quarter of 2015, EnerPlex launched the Generatr S100 and select other products exclusively with EVINE, and in the third quarter of 2015, the Generatr 1200 launched exclusively with EVINE for a limited period.

During the second quarter of 2015, EnerPlex launched its products into two world recognized retailers; including over 100 The Sports Authority stores nationwide, in addition to launching in select Cabela's, "The World's Foremost Outfitter", stores and via Cabela's online catalog. Internationally, EnerPlex products became available in the United Kingdom via the brand's launch with 172 Maplin's stores throughout the country. Subsequent to the close of the third

quarter of 2015, EnerPlex launched with GovX, the premier online shopping destination for military, law enforcement and government agencies.

We continue to design and manufacture PV integrated consumer electronics as well as portable power applications for commercial and military users. Due to the high durability of our products due to the monolithic

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integration employed by our technology, the capability to customize modules into different form factors and the industry leading light weight and flexibility provided by our modules, we believe that the potential applications for our products are numerous.

Need for Additional Capital

Since inception, we have incurred significant losses. We expect to continue to incur net losses in the near term. For the year ended December 31, 2014, our cash used in operations was \$28.1 million. For the nine months ended September 30, 2015, our cash used in operations was \$17.5 million. At September 30, 2015, we had cash and equivalents of \$619,000.

We do not expect that sales revenue and cash flows will be sufficient to support operations and cash requirements until we have fully implemented our new consumer products strategy. Additional projected product revenues are not anticipated to result in a positive cash flow position for 2016 overall. We continue to accelerate sales and marketing efforts related to our consumer products strategy through increased hiring and expansion of our sales channel. We will need to raise additional capital in order to continue our current level of operations throughout 2016. There is no assurance that we will be able to raise such capital on acceptable terms or at all. If our revenues do not increase rapidly, and/or additional financing is not obtained, we will be required to significantly curtail operations to reduce costs and/or sell assets. Such actions would likely have an adverse impact on our future operations.

Corporate Information

We are incorporated under the laws of Delaware. Our principal business office is located at 12300 North Grant Street, Thornton, Colorado 80241, and our telephone number is (720) 872-5000. Our website address is www.ascentsolar.com. Information contained on our website or any other website does not constitute part of this prospectus.

THE OFFERING

On November 10, 2015, we entered into a committed equity line purchase agreement (the "Purchase Agreement") with Redwood Management, LLC (the "Selling Stockholder"). In connection with the Purchase Agreement, we entered into a Registration Rights Agreement (the "Registration Rights Agreement") with the Selling Stockholder, pursuant to which we agreed to file this registration statement.

Under the terms and subject to the conditions of the Purchase Agreement, at our option, we have the right to sell to the Selling Stockholder, and the Selling Stockholder is obligated to purchase from us, up to \$32,200,000 of our common stock (the "Committed Equity Line"), subject to certain limitations, from time to time, over the 36-month period commencing on the date that the registration statement of which this prospectus forms a part is declared effective by the Securities and Exchange Commission (the "SEC").

We will not issue any shares of common stock pursuant to the Purchase Agreement unless and until our stockholders approve the potential issuance of the common stock thereunder in accordance with applicable Nasdaq listing rules. We intend to seek such approval at a special meeting to be held in December 2015. If our stockholders do not vote to approve such issuances of our shares in accordance with such rule, then no shares of common stock will be issued pursuant to the Purchase Agreement.

From time to time, we may direct the Selling Stockholder, at its sole discretion and subject to certain conditions, to purchase an amount (the "Purchase Amount") of shares of common stock up to the lesser of (i) \$1,000,000 (calculated using the per share price described below) or (ii) 300% of the average daily trading volume of our common stock over the preceding ten trading day period. The maximum amount of any Purchase Amount may be increased, subject to the Selling Stockholder's approval. The per share purchase price for shares of common stock to be sold by us under the

Purchase Agreement shall be fixed at 80% of the average of the two lowest volume

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weighted average prices (“VWAPs”) of our common stock for the ten consecutive trading day period prior to each specific purchase date.

We may not direct the Selling Stockholder to purchase shares of common stock more frequently than once each ten business days. Our sales of shares of common stock to the Selling Stockholder under the Purchase Agreement are limited to no more than the number of shares that would result in the beneficial ownership by the Selling Stockholder and its affiliates, at any single point in time, of more than 4.99% of our then outstanding shares of common stock. At the Selling Stockholder’s option, the cap may be raised or lowered to any other percentage not in excess of 9.99%, except that any increase will only be effective upon 61 days’ prior notice to us. We have the right to terminate the Purchase Agreement at any time, at no cost or penalty.

As consideration for entering into the Purchase Agreement, we have agreed to issue to the Selling Stockholder 2,640,000 shares of our common stock (the “Commitment Shares”). The Commitment Shares will be issued to the Selling Stockholder in four tranches of 500,000 shares each and one tranche of 640,000 shares, at an interval of every 15 calendar days commencing upon the later of (i) the date that the registration statement of which this prospectus forms a part is declared effective by the SEC and (ii) stockholder approval of the issuance of shares of our common stock pursuant to the Purchase Agreement in accordance with applicable Nasdaq listing rules.

As of December 14, 2015, there were 131,924,027 shares of our common stock outstanding, of which 125,742,664 shares were held by non-affiliates. Although the Purchase Agreement provides that we may sell up to \$32,200,000 of our common stock to the Selling Stockholder, only 30,000,000 shares of our common stock are being offered under this prospectus, which includes the 2,640,000 Commitment Shares and 27,360,000 shares that may be issued to the Selling Stockholder in the future under the Purchase Agreement. If we elect to issue and sell more than the 30,000,000 shares offered under this prospectus to the Selling Stockholder, which we have the right, but not the obligation, to do, we must first register for resale under the Securities Act any such additional shares, which could cause additional substantial dilution to our stockholders.

The number of shares ultimately offered for resale by the Selling Stockholder is dependent upon the number of shares we sell to the Selling Stockholder under the Purchase Agreement. The Selling Stockholder will determine when and how it will sell the common stock it purchases under the Purchase Agreement and which are offered in this prospectus. The Selling Stockholder should be considered an “underwriter” under the Securities Act.

Issuances of our common stock in this offering will not affect the rights or privileges of our existing stockholders, except that the economic and voting interests of each of our existing stockholders will be diluted as a result of any such issuance. Although the number of shares of common stock that our existing stockholders own will not decrease, the shares owned by our existing stockholders will represent a smaller percentage of our total outstanding shares after any such issuance to the Selling Stockholder.

This prospectus includes 30,000,000 shares of common stock issuable in connection with the Purchase Agreement (including the Commitment Shares).

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Common stock outstanding prior to the offering	131,924,027*
Common stock offered by the Selling Stockholder	30,000,000**
Common stock to be outstanding after the offering	161,924,027**

Use of proceeds

We will not receive any proceeds from the sale of the securities hereunder. However, we may receive up to \$32,200,000 under the Purchase Agreement with the Selling Stockholder. Any proceeds that we receive from sales to the Selling Stockholder under the Purchase Agreement will be used for working capital and general corporate purposes. See “Use of Proceeds” for a complete description.

* As of December 14, 2015.

** Includes (i) 27,360,000 shares of common stock that we may sell to the Selling Stockholder from time to time after the effective date of this registration statement and (ii) the Commitment Shares.

FORWARD-LOOKING STATEMENTS

This prospectus and the documents incorporated by reference into it contain forward-looking statements within the meaning of Section 27A of the Securities Act and Section 21E of the Securities Exchange Act of 1934, as amended (the “Exchange Act”). Forward-looking statements are those that predict or describe future events or trends and that do not relate solely to historical matters. You can generally identify forward-looking statements as statements containing the words “believe,” “expect,” “may,” “will,” “could,” “would,” “anticipate,” “intend,” “estimate,” “project,” “plan,” “continue,” “estimate,” “project,” “plan,” “continue,” or other similar expressions, although not all forward-looking statements contain these identifying words. All statements contained in this prospectus regarding our plans, objectives, goals, strategies, future events, future net sales or performance, capital expenditures, projected financial position, potential future revenues, projected costs, financing needs, plans or intentions relating to acquisitions, plans for the commercialization of our products, business trends and results that might be obtained by pursuing management’s current plans and objectives are forward-looking statements. Forward-looking statements include, but are not necessarily limited to, those relating to:

- Our limited operating history and lack of profitability;
- Our ability to successfully design, manufacture and sell our EnerPlex™ line of consumer products;
- Our ability to develop demand for, and sales of, our products;
- Our ability to attract and retain qualified personnel to implement our business plan and corporate growth strategies;
- Our ability to develop sales, marketing and distribution capabilities;
- Our ability to achieve profitability through our strategic alliance with TFG Radiant Investment Group Ltd. (“TFG Radiant”) in designing, manufacturing and selling products;
- Our ability to successfully develop and maintain strategic relationships with key partners, including original equipment manufacturers (“OEMs”), system integrators, distributors, retailers and e-commerce companies, who deal directly with end users in our target markets;
- The accuracy of our estimates and projections;

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- Our ability to secure additional financing to fund our short-term and long-term financial needs;
 - Our ability to maintain the listing of our common stock on the NASDAQ Capital Market;
 - The commencement, or outcome, of legal proceedings against us, or by us, including ongoing litigation proceedings;
 - Changes in our business plan or corporate strategies;
 - The extent to which we are able to manage the growth of our operations effectively, both domestically and abroad, whether directly owned or indirectly through licenses;
 - The supply, availability and price of equipment, components and raw materials, including the elements needed to produce our photovoltaic modules;
 - Our ability to expand and protect the intellectual property portfolio that relates to our consumer electronics, photovoltaic modules and processes;
 - General economic and business conditions, and in particular, conditions specific to consumer electronics and the solar power industry; and
 - Other risks and uncertainties discussed in greater detail in the section captioned “Risk Factors.”
- You should not place undue reliance on our forward-looking statements because the matters they describe are subject to known and unknown risks, uncertainties and other unpredictable factors, many of which are beyond our control. Our forward-looking statements are based on the information currently available to us and speak only as of the date on the cover of this prospectus. New risks and uncertainties arise from time to time, and it is impossible for us to predict these matters or how they may affect us. Over time, our actual results, performance or achievements will likely differ from the anticipated results, performance or achievements that are expressed or implied by our forward-looking statements, and such differences might be significant and materially adverse to our investors. We have no duty to, and do not intend to, update or revise the forward-looking statements in this prospectus after the date of this prospectus except to the extent required by the federal securities laws. You should consider all risks and uncertainties disclosed in our filings with the SEC described in the sections of this prospectus entitled “Information Incorporated by Reference” and “Where You Can Find More Information,” all of which are accessible on the SEC’s website at www.sec.gov

RISK FACTORS

An investment in our securities involves a high degree of risk and many uncertainties discussed in the section entitled “Risk Factors” in our annual report on Form 10-K for the year ended December 31, 2014, which is incorporated by reference into this prospectus. You should carefully consider the risk factors before purchasing our securities. If one or more of the possibilities described as risks actually occurs, our operating results and financial condition would likely suffer and the trading price of our securities could fall, causing you to lose some or all of your investment in the securities we are offering.

Risks Relating to Our Business

We have a limited history of operations, have not generated significant revenue from operations and have had limited production of our products.

We have a limited operating history and have generated limited revenue from operations. Currently, we are producing consumer oriented products in quantities necessary to meet current demand. Under our current business plan, we expect losses to continue until annual revenues and gross margins reach a high enough level to cover

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operating expenses. We are utilizing contract manufacturers in Asia for components and for final assembly of finished goods. Our ability to achieve our business, commercialization and expansion objectives will depend on a number of factors, including whether:

- We can generate customer acceptance of and demand for our products;
- We successfully ramp up commercial production on the equipment installed;
- Our products are successfully and timely certified for use in our target markets;
- We successfully operate production tools to achieve the efficiencies, throughput and yield necessary to reach our cost targets;
- The products we design are saleable at a price sufficient to generate profits;
- Our strategic alliance with TFG Radiant results in the design, manufacture and sale of sufficient products to achieve profitability;
- We raise sufficient capital to enable us to reach a level of sales sufficient to achieve profitability on terms favorable to us;
- We are able to design, manufacture, market, distribute and sell our newly introduced line of consumer oriented products;
- We effectively manage the planned ramp up of our operations;
- We successfully develop and maintain strategic relationships with key partners, including OEMs, system integrators and distributors, retailers and e-commerce companies, who deal directly with end users in our target markets;
- Our ability to maintain the listing of our common stock on the NASDAQ Capital Market;
- Our ability to achieve projected operational performance and cost metrics;
- Our ability to enter into commercially viable licensing, joint venture, or other commercial arrangements; and
- The availability of raw materials.

Each of these factors is critical to our success, and accomplishing each of these tasks may take longer or cost more than expected, or may never be accomplished. It also is likely that problems we cannot now anticipate will arise. If we cannot overcome these problems, our business, results of operations and financial condition could be materially and adversely affected.

We have to date incurred net losses and may be unable to generate sufficient sales in the future to become profitable. We incurred a net loss applicable to common stockholders of \$51.4 million for the year ended December 31, 2014 and \$35.2 million for the nine months ended September 30, 2015. We reported an accumulated deficit of \$334.5 million as of September 30, 2015. We expect to incur net losses in the near term. Our ability to achieve profitability depends on a number of factors, including market acceptance of our consumer oriented products at competitive prices. If we are unable to raise additional capital and generate sufficient revenue to achieve profitability and positive cash flows, we may be unable to satisfy our commitments and may have to discontinue operations.

Our EnerPlex line of consumer oriented products exposes us to many new risks and uncertainties.

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Following the appointment of our new President and CEO in February 2012, we repositioned our business model with an immediate focus into developing downstream consumer products. In 2012, we launched our EnerPlex brand line of consumer products, and introduced the first product under the EnerPlex brand with a solar assisted mobile phone charger incorporating our CIGS PV thin film technology. This new line of consumer oriented products exposes us to many risks and uncertainties that are new to our business.

We have limited experience in the design, manufacture, marketing, distribution and sale of consumer oriented products. Our ability to be successful with our line of consumer oriented products will depend on a number of factors, including whether:

• We can achieve and maintain customer acceptance of our new consumer oriented products;

• We can rapidly develop and successfully introduce large numbers of new consumer oriented products in response to changing consumer preferences, the introduction of new consumer electronics products (such as new mobile phone models) that our EnerPlex™ products are designed to extend their battery life, and the introduction of new products by competing manufacturers;

• We can maintain an adequate level of product quality over multiple consumer oriented products which must be designed, manufactured and introduced rapidly to keep pace with changing consumer preferences and competitive factors;

• We can successfully manage our third party contract manufacturers located outside the U.S. on whom we are heavily dependent for the production of our consumer oriented products;

• We can successfully distribute our consumer oriented products through distributors, wholesalers, internet retailers and traditional retailers (many of whom distribute products from competing manufacturers) on whom we are heavily dependent; and

• We can successfully manage the substantial inventory and other asset risks associated with the manufacture and sale of consumer electronic products, given the rapid and unpredictable pace of product obsolescence in such consumer markets.

Our business is based on a new technology, and if our PV modules or processes fail to achieve the performance and cost metrics that we expect, then we may be unable to develop demand for our PV modules and generate sufficient revenue to support our operations.

Our CIGS on flexible plastic substrate technology is a relatively new technology. Our business plan and strategies assume that we will be able to achieve certain milestones and metrics in terms of throughput, uniformity of cell efficiencies, yield, encapsulation, packaging, cost and other production parameters. We cannot assure you that our technology will prove to be commercially viable in accordance with our plan and strategies. Further, we or our strategic partners and licensees may experience operational problems with such technology after its commercial introduction that could delay or defeat the ability of such technology to generate revenue or operating profits. If we are unable to achieve our targets on time and within our planned budget, then we may not be able to develop adequate demand for our PV modules, and our business, results of operations and financial condition could be materially and adversely affected.

Our failure to further refine our technology and develop and introduce improved PV products could render our PV modules uncompetitive or obsolete and reduce our net sales and market share.

Our success requires us to invest significant financial resources in research and development to keep pace with technological advances in the solar energy industry. However, research and development activities are inherently uncertain, and we could encounter practical difficulties in commercializing our research results. Our expenditures on research and development may not be sufficient to produce the desired technological advances, or they may not

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produce corresponding benefits. Our PV modules may be rendered obsolete by the technological advances of our competitors, which could harm our results of operations and adversely impact our net sales and market share. Failure to expand our manufacturing capability successfully at our facilities would adversely impact our ability to sell our products into our target markets and would materially and adversely affect our business, results of operations and financial condition.

Our growth plan calls for production and operation at our facility and at contract manufacturers in Asia. Successful operations will require substantial engineering and manufacturing resources and are subject to significant risks, including risks of cost overruns, delays and other risks, such as geopolitical unrest that may cause us not be able to successfully operate in other countries. Furthermore, we may never be able to operate our production processes in high volume or at the volumes projected, make planned process and equipment improvements, attain projected manufacturing yields or desired annual capacity, obtain timely delivery of components, or hire and train the additional employees and management needed to scale our operations. Failure to meet these objectives on time and within our planned budget could materially and adversely affect our business, results of operations and financial condition. We may be unable to manage the expansion of our operations and strategic alliances effectively.

We will need to significantly expand our operations and form beneficial strategic alliances in order to reduce manufacturing costs through economies of scale and partnerships, secure contracts of commercially material amounts with reputable customers and capture a meaningful share of our target markets. To manage the expansion of our operations and alliances, we will be required to improve our operational and financial systems, oversight, procedures and controls and expand, train and manage our growing employee base. Our management team will also be required to maintain and cultivate our relationships with partners, customers, suppliers and other third parties and attract new partners, customers and suppliers. In addition, our current and planned operations, personnel, facility size and configuration, systems and internal procedures and controls, even when augmented through strategic alliances, might be inadequate or insufficient to support our future growth. If we cannot manage our growth effectively, we may be unable to take advantage of market opportunities, execute our business strategies or respond to competitive pressures, resulting in a material and adverse effect to our business, results of operations and financial condition.

We depend on a limited number of third party suppliers for key raw materials, and their failure to perform could cause manufacturing delays and impair our ability to deliver PV modules to customers in the required quality and quantity and at a price that is profitable to us.

Our failure to obtain raw materials and components that meet our quality, quantity and cost requirements in a timely manner could interrupt or impair our ability to manufacture our products or increase our manufacturing cost. Most of our key raw materials are either sole sourced or sourced by a limited number of third party suppliers. As a result, the failure of any of our suppliers to perform could disrupt our supply chain and impair our operations. Many of our suppliers are small companies that may be unable to supply our increasing demand for raw materials as we implement our planned expansion. We may be unable to identify new suppliers in a timely manner or on commercially reasonable terms. Raw materials from new suppliers may also be less suited for our technology and yield PV modules with lower conversion efficiencies, higher failure rates and higher rates of degradation than PV modules manufactured with the raw materials from our current suppliers.

Our continuing operations will require additional capital which we may not be able to obtain on favorable terms, if at all or without dilution to our stockholders.

Since inception, we have incurred significant losses. We expect to continue to incur net losses in the near term. For the year ended December 31, 2014, our cash used in operations was \$28.1 million. For the nine months ended September 30, 2015, our cash used in operations was \$17.5 million. At September 30, 2015, we had cash and equivalents of \$619,000.

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Although we have commenced production at our manufacturing facility, we do not expect that sales revenue and cash flows will be sufficient to support operations and cash requirements until we have fully implemented our new consumer products strategy. Additional projected product revenues are not anticipated to result in a positive cash flow position for the year 2016 overall. The Company will need to raise additional capital in order to continue our current level of operations throughout 2016.

To the extent that we may need to raise additional capital in the future, there is no assurance that we will be able to raise additional capital on acceptable terms or at all. If we raise additional funds through the issuance of equity or convertible debt securities, the percentage ownership of our existing stockholders could be significantly diluted, and these newly issued securities may have rights, preferences or privileges senior to those of existing stockholders. If we raise additional funds through debt financing, which may involve restrictive covenants, our ability to operate our business may be restricted. If adequate funds are not available or are not available on acceptable terms, if and when needed, our ability to fund our operations, take advantage of unanticipated opportunities, develop or enhance our products, expand capacity or otherwise respond to competitive pressures could be significantly limited, and our business, results of operations and financial condition could be materially and adversely affected.

In addition, the terms of a loan we obtained from the Colorado Housing and Finance Authority (“CHFA”) in connection with our purchase and improvement of our Thornton, Colorado facility contain covenants that limit our ability, without the consent of CHFA, to create or incur additional indebtedness (other than obligations created or incurred in the ordinary course of business such as working capital financing); merge or consolidate with any other entity; or make loans or advances to our officers, shareholders, directors or employees. The presence of these covenants gives CHFA the ability to bar us from engaging in certain transactions in the future that we may determine are necessary or advisable to meet our business objectives, including debt offerings and acquisitions of or by other companies. If CHFA were to withhold its written consent under these or other circumstances, we could be forced to prepay such loans at a premium, which could adversely affect our business, results of operations and financial condition.

Our products may never gain sufficient market acceptance, in which case we would be unable to sell our products or achieve profitability.

Demand for our products may never develop sufficiently, and our products may never gain market acceptance, if we fail to produce products that compare favorably against competing products on the basis of cost, quality, weight, efficiency and performance. Demand for our products also will depend on our ability to develop and maintain successful relationships with key partners, including distributors, retailers, OEMs, system integrators and value added resellers. If our products fail to gain market acceptance as quickly as we envision or at all, our business, results of operations and financial condition could be materially and adversely affected.

We are targeting emerging markets for a significant portion of our planned product sales. These markets are new and may not develop as rapidly as we expect, or may not develop at all.

Our target markets include consumer electronics, portable power, defense, transportation, space and near space, and building applied photovoltaic (“BAPV”) and building integrated photovoltaic (“BIPV”) markets. Although certain areas of these markets have started to develop, some of them are in their infancy. We believe these markets have significant long term potential; however, some or all of these markets may not develop and emerge as we expect. If the markets do develop as expected, there may be other products that could provide a superior product or a comparable product at lower prices than our products. If these markets do not develop as we expect, or if competitors are better able to capitalize on these markets our revenues and product margins may be negatively affected.

Failure to consummate strategic relationships with key partners in our various target market segments, such as consumer electronics, defense and portable power, transportation, space and near space, and the respective implementations of the right strategic partnerships to enter these various specified markets, could adversely affect our projected sales, growth and revenues.

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We intend to sell thin-film PV modules for use in consumer electronics, portable power systems, defense and portable power systems, transportation, space and near space solar panel applications. Our marketing and distribution strategy is to form strategic relationships with distributors, retailers and value added resellers as well as direct to consumer kiosks and e-commerce to provide a foothold in these target markets. If we are unable to successfully establish working relationships with such market participants or if, due to cost, technical or other factors, our products prove unsuitable for use in such applications; our projected revenues and operating results could be adversely affected.

If sufficient demand for our products does not develop or takes longer to develop than we anticipate, we may be unable to grow our business, generate sufficient revenue to attain profitability or continue operations.

The solar energy industry is at a relatively early stage of development, and the extent to which PV modules, including our own, will be widely adopted is uncertain. While pure PV solutions is not our short term primary market, if PV technology proves unsuitable for widespread adoption or if demand for PV modules fails to develop sufficiently, long term we may be unable to grow our business, generate sufficient sales to attain profitability or continue operations. Many factors, of which several are outside of our control, may affect the viability of widespread adoption of PV technology and demand for PV modules.

We face intense competition from other manufacturers of thin-film PV modules and other companies in the solar energy industry.

The solar energy and renewable energy industries are both highly competitive and continually evolving as participants strive to distinguish themselves within their markets and compete with the larger electric power industry. We believe our main sources of competition are other thin film PV manufacturers and companies developing other solar solutions, such as solar thermal and concentrated PV technologies.

Many of our existing and potential competitors have substantially greater financial, technical, manufacturing and other resources than we do. A competitor's greater size provides them with a competitive advantage because they often can realize economies of scale and purchase certain raw materials at lower prices. Many of our competitors also have greater brand name recognition, established distribution networks and large customer bases. In addition, many of our competitors have well-established relationships with our current and potential partners and distributors and have extensive knowledge of our target markets. As a result of their greater size, these competitors may be able to devote more resources to the research, development, promotion and sale of their products or respond more quickly to evolving industry standards and changes in market conditions than we can. Our failure to adapt to changing market conditions and to compete successfully with existing or future competitors could materially and adversely affect our business, results of operations and financial condition.

Problems with product quality or performance may cause us to incur warranty expenses, damage our market reputation and prevent us from maintaining or increasing our market share.

If our products fail to perform as expected while under warranty, or if we are unable to support the warranties, sales of our products may be adversely affected or our costs may increase, and our business, results of operations and financial condition could be materially and adversely affected.

We may also be subject to warranty or product liability claims against us that are not covered by insurance or are in excess of our available insurance limits. In addition, quality issues can have various other ramifications, including delays in the recognition of revenue, loss of revenue, loss of future sales opportunities, increased costs associated with repairing or replacing products, and a negative impact on our goodwill and reputation. The possibility of future product failures could cause us to incur substantial expenses to repair or replace defective products. Furthermore, widespread product failures may damage our market reputation and reduce our market share causing sales to decline. The interests of our largest stockholder, TFG Radiant, may conflict with our interests or your interests now or in the future.

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As of December 15, 2015, TFG Radiant beneficially owned approximately 4.45% of our common stock. As a result of its large holding of our shares, TFG Radiant may have the ability to prevent any transaction that requires the approval of stockholders regardless of whether other stockholders believe any such transaction is in their own best interests, with the exception of certain agreements TFG Radiant has made pursuant to the Amended and Restated Stockholders Agreement between us and TFG Radiant. TFG Radiant also has certain registration rights that could impact shareholders. Additionally, TFG Radiant currently holds two seats on our Board of Directors, which affords TFG Radiant greater control and influence over matters affecting our business.

On February 1, 2012, Mr. Victor Lee was appointed by our Board as our President and Chief Executive Officer. Mr. Lee is the managing director of Tertius Financial Group Pte Ltd, the joint venture partner with Radiant Group in TFG Radiant.

TFG Radiant may from time to time acquire and hold interests in businesses that compete directly or indirectly with us. TFG Radiant also may pursue opportunities (including by acquisition) that may be adverse to, or be in direct or indirect competition with us. Additionally, our potential customers may be competitors of TFG Radiant and our interests in selling to those customers could be divergent from TFG Radiant's competitive interests. So long as TFG Radiant continues to own a significant amount of the outstanding shares of our common stock and Mr. Lee is President and Chief Executive Officer, TFG Radiant may be able to strongly influence or effectively control our decisions.

Currency translation risk may negatively affect our net sales, cost of equipment, cost of sales, gross margin or profitability and could result in exchange losses.

Although our reporting currency is the U.S. dollar, we may conduct business and incur costs in the local currencies of other countries in which we operate, make sales or buy equipment or materials. As a result, we are subject to currency translation risk. Our future contracts and obligations may be exposed to fluctuations in currency exchange rates, and, as a result, our capital expenditures or other costs may exceed what we have budgeted. Further, changes in exchange rates between foreign currencies and the U.S. dollar could affect our net sales and cost of sales and could result in exchange losses. We cannot accurately predict future exchange rates or the overall impact of future exchange rate fluctuations on our business, results of operations and financial condition.

A significant increase in the price of our raw materials could lead to higher overall costs of production, which would negatively affect our planned product margins, or make our products uncompetitive in the PV market.

Our raw materials include high temperature plastics and various metals. Significant increases in the costs of these raw materials may impact our ability to compete in our target markets at a price sufficient to produce a profit.

Our intellectual property rights or our means of enforcing those rights may be inadequate to protect our business, which may result in the unauthorized use of our products or reduced sales or otherwise reduce our ability to compete. Our business and competitive position depends upon our ability to protect our intellectual property rights and proprietary technology, including any PV modules that we develop. We attempt to protect our intellectual property rights, primarily in the United States, through a combination of patent, trade secret and other intellectual property laws, as well as licensing agreements and third party nondisclosure and assignment agreements. Because of the differences in foreign patent and other laws concerning intellectual property rights, our intellectual property rights may not receive the same degree of protection in foreign countries as they would in the United States. Our failure to obtain or maintain adequate protection of our intellectual property rights, for any reason, could have a materially adverse effect on our business, results of operations and financial condition. Further, any patents issued in connection with our efforts to develop new technology for PV modules may not be broad enough to protect all of the potential uses of our technology.

We also rely on unpatented proprietary technology. It is possible others will independently develop the same or similar technology or otherwise obtain access to our unpatented technology. To protect our trade secrets and other

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proprietary information, we require our employees, consultants and advisors to execute proprietary information and invention assignment agreements when they begin working for us. We cannot assure these agreements will provide meaningful protection of our trade secrets, unauthorized use, misappropriation or disclosure of trade secrets, know how or other proprietary information. Despite our efforts to protect this information, unauthorized parties may attempt to obtain and use information that we regard as proprietary. If we are unable to maintain the proprietary nature of our technologies, we could be materially adversely affected.

In addition, when others control the prosecution, maintenance and enforcement of certain important intellectual property, such as technology licensed to us, the protection and enforcement of the intellectual property rights may be outside of our control. If the entity that controls intellectual property rights that are licensed to us does not adequately protect those rights, our rights may be impaired, which may impact our ability to develop, market and commercialize our products. Further, if we breach the terms of any license agreement pursuant to which a third party licenses us intellectual property rights, our rights under that license may be affected and we may not be able to continue to use the licensed intellectual property rights, which could adversely affect our ability to develop, market and commercialize our products.

If third parties claim we are infringing or misappropriating their intellectual property rights, we could be prohibited from selling our PV products, be required to obtain licenses from third parties or be forced to develop non-infringing alternatives, and we could be subject to substantial monetary damages and injunctive relief.

The PV industry is characterized by the existence of a large number of patents and frequent litigation based on allegations of patent infringement. We are aware of numerous issued patents and pending patent applications owned by third parties that may relate to current and future generations of solar energy. The owners of these patents may assert the manufacture, use or sale of any of our products infringes one or more claims of their patents. Moreover, because patent applications can take many years to issue, there may be currently pending applications, unknown to us, which may later result in issued patents that materially and adversely affect our business. Third parties could also assert claims against us that we have infringed or misappropriated their intellectual property rights. Whether or not such claims are valid, we cannot be certain we have not infringed the intellectual property rights of such third parties. Any infringement or misappropriation claim could result in significant costs or substantial damages to our business or an inability to manufacture, market or sell any of our PV modules found to infringe or misappropriate. Even if we were to prevail in any such action, the litigation could result in substantial cost and diversion of resources that could materially and adversely affect our business. The large number of patents, the rapid rate of new patent issuances, the complexities of the technology involved and uncertainty of litigation increase the risk of business assets and management's attention being diverted to patent litigation. Even if obtaining a license were feasible, it could be costly and time consuming. We might be forced to obtain additional licenses from our existing licensors in the event the scope of the intellectual property we have licensed is too narrow to cover our activities, or in the event the licensor did not have sufficient rights to grant us the license(s) purportedly granted. Also, some of our licenses may restrict or limit our ability to grant sub-licenses and/or assign rights under the licenses to third parties, which may limit our ability to pursue business opportunities.

Our future success depends on retaining our Chief Executive Officer and existing management team and hiring and assimilating new key employees and our inability to attract or retain key personnel would materially harm our business and results of operations.

Our success depends on the continuing efforts and abilities of our executive officers, including Mr. Victor Lee, our President and Chief Executive Officer, our other executive officers, and key technical personnel. Our future success also will depend on our ability to attract and retain highly skilled employees, including management, technical and sales personnel. The loss of any of our key personnel, the inability to attract, retain or assimilate key personnel in the future, or delays in hiring required personnel could materially harm our business, results of operations and financial condition.

Our PV modules contain limited amounts of cadmium sulfide, and claims of human exposure or future regulations could have a material adverse effect on our business, results of operations and financial condition.

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Our PV modules contain limited amounts of cadmium sulfide, which is regulated as a hazardous material due to the adverse health effects that may arise from human exposure, and is banned in certain countries. We cannot assure you that human or environmental exposure to cadmium sulfide used in our PV modules will not occur. Any such exposure could result in third party claims against us, damage to our reputation and heightened regulatory scrutiny of our PV modules. Future regulation relating to the use of cadmium in various products could force us to seek regulatory exemptions or impact the manufacture and sale of our PV modules and could require us to incur unforeseen environmental related costs. The occurrence of future events such as these could limit our ability to sell and distribute our PV modules, and could have a material adverse effect on our business, results of operations and financial condition.

Environmental obligations and liabilities could have a substantial negative impact on our financial condition, cash flows and profitability.

We are subject to a variety of federal, state, local and foreign laws and regulations relating to the protection of the environment, including those governing the use, handling, generation, processing, storage, transportation and disposal of, or human exposure to, hazardous and toxic materials (such as the cadmium used in our products), the discharge of pollutants into the air and water, and occupational health and safety. We are also subject to environmental laws which allow regulatory authorities to compel, or seek reimbursement for, cleanup of environmental contamination at sites now or formerly owned or operated by us and at facilities where our waste is or has been disposed. We may incur significant costs and capital expenditures in complying with these laws and regulations. In addition, violations of, or liabilities under, environmental laws or permits may result in restrictions being imposed on our operating activities or in our being subjected to substantial fines, penalties, criminal proceedings, third party property damage or personal injury claims, cleanup costs or other costs. Also, future developments such as more aggressive enforcement policies, the implementation of new, more stringent laws and regulations, or the discovery of presently unknown environmental conditions or noncompliance may require expenditures that could have a material adverse effect on our business, results of operations and financial condition. Further, greenhouse gas emissions have increasingly become the subject of international, national, state and local attention. Although future regulations could potentially lead to an increased use of alternative energy, there can be no guarantee that such future regulations will encourage solar technology.

Given our limited history of operations, it is difficult to predict future environmental expenses.

We currently anticipate having substantial international operations that will subject us to a number of risks, including potential unfavorable political, regulatory, labor and tax conditions in foreign countries.

We expect to expand our operations abroad in the future and, as a result, we may be subject to the legal, political, social and regulatory requirements and economic conditions of foreign jurisdictions. Risks inherent to international operations, include, but are not limited to, the following:

- Difficulty in procuring supplies and supply contracts abroad;
- Difficulty in enforcing agreements in foreign legal systems;
- Foreign countries imposing additional withholding taxes or otherwise taxing our foreign income, imposing tariffs or adopting other restrictions on foreign trade and investment, including currency exchange controls;
- Inability to obtain, maintain or enforce intellectual property rights;
- Risk of nationalization;
- Changes in general economic and political conditions in the countries in which we may operate, including changes in the government incentives we might rely on;
- Unexpected adverse changes in foreign laws or regulatory requirements, including those with respect to environmental protection, export duties and quotas;

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Difficulty with staffing and managing widespread operations;

Trade barriers such as export requirements, tariffs, taxes and other restrictions and expenses, which could increase the prices of our products and make us less competitive in some countries; and

Difficulty of, and costs relating to, compliance with the different commercial and legal requirements of the international markets in which we plan to offer and sell our PV products.

Our business in foreign markets will require us to respond to rapid changes in market conditions in these countries.

Our overall success as an international business depends, in part, on our ability to succeed in differing legal, regulatory, economic, social and political conditions. If we are not able to develop and implement policies and strategies that are effective in each location where we will do business, then our business, results of operations and financial condition could be materially and adversely affected.

Existing regulations and policies and changes to these regulations and policies may present technical, regulatory and economic barriers to the purchase and use of PV products, which may significantly reduce demand for our PV products.

The market for electricity generation products is heavily influenced by foreign, U.S., state and local government regulations and policies concerning the electric utility industry, as well as policies promulgated by electric utilities. These regulations and policies often relate to electricity pricing and technical interconnection of customer owned electricity generation. In the United States and in a number of other countries, these regulations and policies have been modified in the past and may be modified again in the future. These regulations and policies could deter end user purchases of PV products and investment in the research and development of PV technology. For example, without a mandated regulatory exception for PV systems, utility customers are often charged interconnection or standby fees for putting distributed power generation on the electric utility grid. These fees could increase the cost to our end users of using PV systems and make them less desirable, thereby harming our business, prospects, results of operations and financial condition. In addition, electricity generated by PV systems mostly competes with expensive peak hour electricity, rather than the less expensive average price of electricity. Modifications to the peak hour pricing policies of utilities, such as to a flat rate, would require PV systems to achieve lower prices in order to compete with the price of electricity from other sources.

We anticipate that our PV modules and their use in installations will be subject to oversight and regulation in accordance with national and local ordinances relating to building codes, safety, environmental protection, utility interconnection and metering and related matters. It is difficult to track the requirements of individual states and design equipment to comply with the varying standards. Any new government regulations or utility policies pertaining to PV modules may result in significant additional expenses to us, our business partners and their customers and, as a result, could cause a significant reduction in demand for our PV modules.

Risks Relating to our Securities and an Investment in our Common Stock

As a public company we are subject to complex legal and accounting requirements that require us to incur substantial expenses, and our financial controls and procedures may not be sufficient to ensure timely and reliable reporting of financial information, which, as a public company, could materially harm our stock price and listing on the NASDAQ Capital Market.

As a public company, we are subject to numerous legal and accounting requirements that do not apply to private companies. The cost of compliance with many of these requirements is substantial, not only in absolute terms but, more importantly, in relation to the overall scope of the operations of a small company. Failure to comply with these requirements can have numerous adverse consequences including, but not limited to, our inability to file required periodic reports on a timely basis, loss of market confidence, delisting of our securities and/or governmental or private actions against us. We cannot assure you we will be able to comply with all of these requirements or the cost of such compliance will not prove to be a substantial competitive disadvantage vis-à-vis our privately held and larger public competitors.

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The Sarbanes-Oxley Act of 2002 (“Sarbanes-Oxley”) requires, among other things, that we maintain effective internal control over financial reporting and disclosure controls and procedures. In particular, we must perform system and process evaluation and testing of our internal control over financial reporting to allow management to report on the effectiveness of our internal control over financial reporting, as required by Section 404 of Sarbanes-Oxley. Our compliance with Section 404 of Sarbanes-Oxley will require we incur substantial accounting expense and expend significant management efforts. The effectiveness of our controls and procedures may, in the future, be limited by a variety of factors, including:

Faulty human judgment and simple errors, omissions or mistakes;

Fraudulent action of an individual or collusion of two or more people;

Inappropriate management override of procedures; and

The possibility that any enhancements to controls and procedures may still not be adequate to assure timely and accurate financial information.

If we are not able to comply with the requirements of Section 404 in a timely manner, or if we or our independent registered public accounting firm, identifies deficiencies in our internal control over financial reporting that are deemed to be material weaknesses, we may be subject to NASDAQ delisting, investigations by the SEC and civil or criminal sanctions.

Our ability to successfully implement our business plan and comply with Section 404 requires us to be able to prepare timely and accurate financial statements. We expect we will need to continue to improve existing, and implement new operational, financial and accounting systems, procedures and controls to manage our business effectively.

Any delay in the implementation of, or disruption in the transition to, new or enhanced systems, procedures or controls may cause our operations to suffer, and we may be unable to conclude that our internal control over financial reporting is effective as required under Section 404 of Sarbanes-Oxley. If we are unable to complete the required Section 404 assessment as to the adequacy of our internal control over financial reporting, if we fail to maintain or implement adequate controls, our ability to obtain additional financing could be impaired. In addition, investors could lose confidence in the reliability of our internal control over financial reporting and in the accuracy of our periodic reports filed under the Exchange Act. A lack of investor confidence in the reliability and accuracy of our public reporting could cause our stock price to decline.

The price of our common stock may continue to be volatile.

Our common stock is currently traded on the NASDAQ Capital Market. The trading price of our common stock from time to time has fluctuated widely and may be subject to similar volatility in the future. For example, during the period from January 1, 2015 through December 17, 2015, the closing price of our common stock traded as low as \$0.10 and as high as \$2.01. The trading price of our common stock in the future may be affected by a number of factors, including events described in these “Risk Factors.” In recent years, broad stock market indices, in general, and smaller capitalization and PV companies, in particular, have experienced substantial price fluctuations. In a volatile market, we may experience wide fluctuations in the market price of our common stock. These fluctuations may have a negative effect on the market price of our common stock regardless of our operating performance. In the past, following periods of volatility in the market price of a company’s securities, securities class action litigation has often been instituted. A securities class action suit against us could result in substantial costs, potential liabilities and the diversion of management’s attention and resources, and could have a material adverse effect on our financial condition.

Our stockholders may experience significant dilution as a result of shares of our common stock issued pursuant to our currently outstanding securities, and existing agreements, and pursuant to new securities that we may issue in the future.

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We are likely to issue substantial amounts of additional common stock in connection with (i) our outstanding and issuable shares of Series E convertible preferred stock, (ii) the approximate \$1.1 million portion of our existing senior secured convertible notes that are currently outstanding, (iii) the \$2.0 million of our existing subordinated secured convertible notes that are currently outstanding, (iv) the Committed Equity Line with the Selling Stockholder, and (v) our outstanding shares of Series A convertible preferred stock. We may also issue additional common stock, or securities convertible into or exchangeable or exercisable for common stock, in connection with future capital raising transactions.

The shares that may be sold pursuant to the Purchase Agreement may be sold by us to the Selling Stockholder at our discretion from time to time over a 36-month period which will commence after the SEC has declared effective the registration statement that includes this prospectus. The purchase price for the shares that we may sell to the Selling Stockholder under the Purchase Agreement will fluctuate based on the price of our common stock. Depending on market liquidity at the time, sales of such shares may cause the trading price of our common stock to fall.

We generally have the right to control the timing and amount of any sales of our shares to the Selling Stockholder under the Purchase Agreement, subject to the limitations and terms of the Purchase Agreement with the Selling Stockholder. Additional sales of our common stock, if any, to the Selling Stockholder will depend upon market conditions and other factors to be determined by us. The Selling Stockholder may ultimately purchase all, some or none of the shares of our common stock that may be sold pursuant to the Purchase Agreement and, after it has acquired shares, the Selling Stockholder may sell all, some or none of those shares. Therefore, sales to the Selling Stockholder under the Purchase Agreement by us could result in substantial dilution to the interests of other holders of our common stock.

The issuance of material amounts of common stock by us would cause our existing stockholders to experience significant dilution in their investment in our Company. Also, if we obtain additional financing involving the issuance of equity securities or securities convertible into equity securities, our existing stockholders' investment would be further diluted. Such dilution could cause the market price of our common stock to decline, which could impair our ability to raise additional financing.

Sales of a significant number of shares of our common stock in the public markets or significant short sales of our stock, or the perception that such sales could occur, could depress the market price of our common stock and impair our ability to raise capital.

Sales of a substantial number of shares of our common stock or other equity-related securities in the public markets, including any shares issued under our Committed Equity Line to the Selling Stockholder, could depress the market price of our common stock. If there are significant short sales of our stock, the price decline that could result from this activity may cause the share price to decline more so, which, in turn, may cause long holders of the stock to sell their shares, thereby contributing to sales of stock in the market. Such sales also may impair our ability to raise capital through the sale of additional equity securities in the future at a time and price that our management deems acceptable, if at all. In addition, a large number of our outstanding shares are not registered under the Securities Act. If and when these shares are registered or become eligible for sale to the public market, the market price of our common stock could also decline.

We may not be able to maintain the listing of our common stock on the NASDAQ Capital Market. If we are unable to regain compliance with all applicable listing rules, our stock could be delisted, which could limit the liquidity of our stock, increase its volatility and hinder our ability to raise capital.

Under the rules of the NASDAQ Stock Market, listed companies are required to maintain a share bid price of at least \$1.00 per share and if the closing share bid price stays below \$1.00 for a period of 30 consecutive business days, then the listed company has a cure period of at least 180 days for the purpose of regaining compliance with the \$1.00 per share bid price minimum. As reported in our Current Report on Form 8-K filed on June 23, 2015, we received notice from the NASDAQ Stock Market that we were not in compliance with the minimum bid price rule.

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We have been granted a compliance period of 180 days, or until December 15, 2015, to regain compliance with the minimum bid price requirement by having a closing bid price of our common stock of at least \$1.00 per share for at least ten consecutive business days.

As reported on our Form 8-K filed December 18, 2015, on December 16, 2015, the Company received notice from NASDAQ stating that because the Company had not regained compliance with the minimum bid price requirement for continued listing, the Company's common stock would be subject to delisting unless the Company requests a hearing before a Nasdaq hearings panel. The Company has requested a hearing before a NASDAQ hearing panel regarding the Company's non-compliance with the minimum bid price rule, which stays any delisting action in connection with the minimum bid price rule and allow the continued listing of the Company's common stock on the NASDAQ Capital Market until such panel renders a decision subsequent to the hearing. At the hearing, the Company intends to present a plan to regain compliance with the minimum bid price rule and request that the panel allow the Company additional time within which to regain compliance. The Company's board and stockholders have previously approved a reverse stock split which can be implemented at any time. Implementing such a reverse stock split is one measure which the Company may use in order to attempt to regain compliance with the minimum bid price rule.

Under the rules of the NASDAQ Stock Market, listed companies are also required to maintain either (i) a market value of listed securities of at least \$35 million or (ii) stockholders' equity of at least \$2.5 million. As reported in our Current Report on Form 8-K filed on June 15, 2015, we received notice from the NASDAQ Stock Market that we were not in compliance with the listing rule regarding market value of listed securities or stockholders' equity. We have been granted a compliance period of 180 days, or until December 7, 2015, to regain compliance by having either \$35 million market value of listed securities or \$2.5 million of stockholders' equity for at least ten consecutive business days.

As reported on our Form 8-K filed December 11, 2015, on December 8, 2015, the Company received notice from NASDAQ stating that because the Company had not regained compliance with the market value of listed securities requirement for continued listing, the Company's common stock would be subject to delisting unless the Company requests a hearing before a Nasdaq hearings panel. The Company has requested a hearing before the panel, which stays any delisting action in connection with the notice and allow the continued listing of the Company's common stock on the NASDAQ Capital Market until the panel renders a decision subsequent to the hearing. At the hearing, the Company intends to present a plan to regain compliance with the Listing Rules and request that the Panel allow the Company additional time within which to regain compliance.

While the Company believes that it will be able to present a viable plan to regain compliance, there can be no assurance that the panel will grant the Company's request for continued listing on the NASDAQ Capital Market, or that the Company's plans to exercise diligent efforts to maintain the listing of its common stock on NASDAQ will be successful.

If our common stock is delisted by NASDAQ, our common stock may be eligible for quotation on an over-the-counter quotation system or on the pink sheets. Upon any such delisting, our common stock would become subject to the regulations of the SEC relating to the market for penny stocks. A penny stock is any equity security not traded on a national securities exchange that has a market price of less than \$5.00 per share. The regulations applicable to penny stocks may severely affect the market liquidity for our common stock and could limit the ability of shareholders to sell securities in the secondary market. In such a case, an investor may find it more difficult to dispose of or obtain accurate quotations as to the market value of our common stock, and there can be no assurance that our common stock will be eligible for trading or quotation on any alternative exchanges or markets.

Delisting from NASDAQ could adversely affect our ability to raise additional financing through public or private sales of equity securities, would significantly affect the ability of investors to trade our securities and would negatively affect the value and liquidity of our common stock. Delisting could also have other negative results, including the potential loss of confidence by employees, the loss of institutional investor interest and fewer business development opportunities.

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We may not be able to maintain effectiveness of one or more registration statements for all of the shares that we would like to issue pursuant to the Purchase Agreement.

Under the terms of the Registration Rights Agreement, we are obligated to include the shares of common stock sold to the Selling Stockholder under the Purchase Agreement in an effective registration statement. The registration statement of which this prospectus forms a part is intended to satisfy part of these obligations. We intend to use our reasonable best efforts to maintain the registration statement to be effective, but may not be able to do so. We cannot assure you that no stop order will be issued, or if such a stop order is issued, we will be able to amend the registration statement to defeat the stop order.

This registration statement only covers a portion of the shares that we may want to issue and sell to the Selling Stockholder under the Purchase Agreement. In order to fully use the equity line with the Selling Stockholder, we would likely need to file additional registration statements in the future that cover additional shares. We would also need to maintain the effectiveness of such additional registration statements.

If we are not able to maintain the effectiveness of these registration statements, we would not be able to fully utilize the equity line with the Selling Stockholder.

Some provisions of our charter documents and Delaware law may have anti-takeover effects that could discourage an acquisition of us by others, even if an acquisition would be beneficial to our stockholders, and may prevent attempts by our stockholders to replace or remove our current management.

Provisions in our Amended and Restated Certificate of Incorporation and Second Amended and Restated Bylaws, each as amended, as well as provisions of Delaware law, could make it more difficult for a third party to acquire us, or for a change in the composition of our Board or management to occur, even if doing so would benefit our stockholders. These provisions include:

- Authorizing the issuance of “blank check” preferred stock, the terms of which may be established and shares of which may be issued without stockholder approval;
- Dividing our Board into three classes;
- Limiting the removal of directors by the stockholders; and
- Limiting the ability of stockholders to call a special meeting of stockholders.

In addition, we are subject to Section 203 of the Delaware General Corporation Law, which generally prohibits a Delaware corporation from engaging in any of a broad range of business combinations with an interested stockholder for a period of three years following the date on which the stockholder became an interested stockholder, unless such transactions are approved by our Board. This provision could have the effect of delaying or preventing a change of control, whether or not it is desired by, or beneficial to, our stockholders.

TFG Radiant, our largest stockholder, is exempt from the general prohibitions of Section 203 because the transaction by which it became an interested stockholder was approved by our Board. Because TFG Radiant has two representatives on our Board, it is less likely that a third party could become an interested stockholder without the consent of TFG Radiant.

USE OF PROCEEDS

This prospectus relates to shares of our common stock that may be offered and sold from time to time by the Selling Stockholder. We will not receive any of the proceeds resulting from the sale of common stock by the Selling Stockholder.

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We may receive gross proceeds of up to \$32,200,000 from the sales of our common stock to the Selling Stockholder under the Purchase Agreement over an approximately 36-month period, assuming that we sell the full amount of our common stock that we have the right, but not the obligation, to sell to the Selling Stockholder under the Purchase Agreement. See “Plan of Distribution” elsewhere in this prospectus for more information. We currently expect to use the net proceeds that we receive under the Purchase Agreement for general corporate purposes and working capital requirements.

THE COMMITTED EQUITY LINE TRANSACTION

General

On November 10, 2015, we entered into the Purchase Agreement and the Registration Rights Agreement with the Selling Stockholder. Under the terms and subject to the conditions of the Purchase Agreement, at our option, we have the right to sell to the Selling Stockholder, and the Selling Stockholder is obligated to purchase from us, up to \$32,200,000 of our common stock, subject to certain limitations, from time to time, over the 36-month period commencing on the date that the registration statement of which this prospectus forms a part is declared effective by the SEC. Pursuant to the terms of the Registration Rights Agreement, we have filed with the SEC the registration statement of which this prospectus forms a part to register for resale under the Securities Act the shares that have been or may be issued to the Selling Stockholder under the Purchase Agreement.

We will not issue any shares of common stock pursuant to the Purchase Agreement unless and until our stockholders approve the potential issuance of the common stock thereunder in accordance with applicable Nasdaq listing rules. We intend to seek such approval at a special meeting to be held in December 2015. If our stockholders do not vote to approve such issuances of our shares in accordance with such rule, then no shares of common stock will be issued pursuant to the Purchase Agreement.

Purchases of Shares under the Purchase Agreement

From time to time, we may direct the Selling Stockholder, at its sole discretion and subject to certain conditions, to purchase an amount of shares of common stock up to the lesser of (i) \$1,000,000 (calculated using the per share price described below) or (ii) 300% of the average daily trading volume of our common stock over the preceding ten trading day period. This maximum amount of shares to be purchased may be increased subject to the Selling Stockholder’s approval. The per share purchase price for shares of common stock to be sold by us under the Purchase Agreement shall be fixed at 80% of the average of the two lowest VWAPs of our common stock for the ten consecutive trading day period prior to each specific purchase date.

We may not direct the Selling Stockholder to purchase shares of common stock more frequently than once each ten business days. Our sales of shares of common stock to the Selling Stockholder under the Purchase Agreement are limited to no more than the number of shares that would result in the beneficial ownership by the Selling Stockholder and its affiliates, at any single point in time, of more than 4.99% of our then outstanding shares of common stock. At the Selling Stockholder’s option, the cap may be raised or lowered to any other percentage not in excess of 9.99%, except that any increase will only be effective upon 61 days’ prior notice to us.

Commitment Shares Payable to the Selling Stockholder

As consideration for entering into the Purchase Agreement, we have agreed to issue to the Selling Stockholder the Commitment Shares in the amount of 2,640,000 shares of our common stock. The Commitment Shares will be issued to the Selling Stockholder in four tranches of 500,000 shares each and one tranche of 640,000 shares, at an interval of every 15 calendar days commencing upon the later of (i) the date that the registration statement of which this

prospectus forms a part is declared effective by the SEC and (ii) stockholder approval of the issuance of shares of our common stock pursuant to the Purchase Agreement in accordance with applicable Nasdaq listing rules.

Our Termination Rights

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We have the right to terminate the Purchase Agreement at any time, at no cost or penalty. In the event of bankruptcy proceedings by or against us, the Purchase Agreement will automatically terminate without any action by the parties thereto.

Events of Default

Events of default under the Purchase Agreement include the following:

The effectiveness of the registration statement of which this prospectus forms a part lapses for any reason (including, without limitation, the issuance of a stop order), or any required prospectus supplement and accompanying prospectus are unavailable for the resale by the Selling Stockholder of our common stock offered hereby, and such lapse or unavailability continues for a period of 10 consecutive business days or for more than an aggregate of 30 business days in any 365-day period;

• Suspension by our principal market of our common stock from trading for a period of three consecutive business days;

The de-listing of our common stock from our principal market, provided our common stock is not immediately thereafter trading on the New York Stock Exchange, the NASDAQ Global Select Market, the NASDAQ Global Market, the NYSE MKT, the NYSE Arca or the OTC Bulletin Board (or nationally recognized successor thereto);

• The transfer agent's failure for three business days to issue to the Selling Stockholder shares of our common stock which the Selling Stockholder is entitled to receive under the Purchase Agreement;

Any breach of the representations or warranties or covenants contained in the Purchase Agreement or any related agreement which has or which could have a material adverse effect on us, subject to a cure period of five business days;

• If we issue more than 19.99% of our aggregate outstanding common stock, determined as of the date of the Purchase Agreement, in violation of the Nasdaq Capital Market rules;

• Any voluntary or involuntary participation or threatened participation in insolvency or bankruptcy proceedings by or against us; or

• If at any time we are not eligible to transfer our common stock electronically.

During an event of default, we cannot initiate any purchases of our common stock under the Purchase Agreement.

No Short-Selling or Hedging by the Selling Stockholder

The Selling Stockholder has agreed that neither it nor any of its affiliates shall engage in any direct or indirect short-selling or hedging of our common stock during any time prior to the termination of the Purchase Agreement.

Effect of Performance of the Purchase Agreement on Our Stockholders

All 30,000,000 shares registered in this offering which may be issued to the Selling Stockholder under the Purchase Agreement are expected to be freely tradable. It is anticipated that shares registered in this offering will be sold over a period of up to 36-months commencing on the date that the registration statement of which this prospectus forms a

part becomes effective. The sale by the Selling Stockholder of a significant amount of shares registered in this offering at any given time could cause the market price of our common stock to decline and to be highly volatile. The Selling Stockholder may ultimately purchase from us all, some or none of the 30,000,000 shares

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of common stock registered in this offering. If we sell these shares to the Selling Shareholder, the Selling Shareholder may sell all, some or none of such shares. Therefore, sales to the Selling Shareholder by us under the Purchase Agreement may result in substantial dilution to the interests of other holders of our common stock. In addition, if we sell a substantial number of shares to the Selling Stockholder under the Purchase Agreement, or if investors expect that we will do so, the actual sales of shares or the mere existence of our arrangement with the Selling Stockholder may make it more difficult for us to sell equity or equity-related securities in the future at a time and at a price that we might otherwise wish to effect such sales. However, we have the right to control the timing and amount of any sales of our shares to the Selling Stockholder and the Purchase Agreement may be terminated by us at any time at our discretion without any cost to us.

Pursuant to the terms of the Purchase Agreement, we have the right, but not the obligation, to direct the Selling Stockholder to purchase up to \$32,200,000 of our common stock. Depending on the price per share at which we sell our common stock to the Selling Stockholder, we may be authorized to issue and sell to the Selling Stockholder under the Purchase Agreement more shares of our common stock than are offered under this prospectus. If we choose to do so, we must first register for resale under the Securities Act any such additional shares, which could cause additional substantial dilution to our stockholders. The number of shares ultimately offered for resale by the Selling Stockholder under this prospectus is dependent upon the number of shares we direct the Selling Stockholder to purchase under the Purchase Agreement.

SELLING STOCKHOLDER

The shares of common stock being offered by the Selling Stockholder are those that we may sell to the Selling Stockholder under our Committed Equity Line and the Commitment Shares. We are registering the shares of common stock in order to permit the Selling Stockholder to offer the shares for resale from time to time. The Selling Stockholder has not had any material relationship with us within the past three years except for (i) the Committed Equity Line with the Selling Stockholder (and the Commitment Shares) and (ii) the ownership of the Series E Preferred Stock (and related shares of common stock paid as a commitment fee) that we announced in our Current Report on Form 8-K filed on November 10, 2015.

The table below lists the Selling Stockholder and other information regarding the beneficial ownership (as determined under Section 13(d) of the Exchange Act and the rules and regulations thereunder) of the shares of common stock held by the Selling Stockholder. The second column lists the number of shares of common stock beneficially owned by the Selling Stockholder, based on its respective ownership of shares of common stock and Series E Preferred Stock as of November 27, 2015, assuming (i) conversion by the Selling Stockholder of the Series E Preferred Stock owned by and issuable to the Selling Stockholder, and (ii) the issuance of the 360,000 commitment shares to the Selling Stockholder pursuant to the securities purchase agreement for the Series E Preferred Stock, in each case on that date but taking account of any limitations on conversion and issuance set forth therein.

The third column lists the shares of common stock being offered by this prospectus by the Selling Stockholder and does not take into account any limitations on the conversion or issuance of shares beneficially owned by the Selling Stockholder.

In accordance with the terms of the Registration Rights Agreement with the Selling Stockholder, this prospectus covers the resale of 30,000,000 shares of common stock, which includes the shares of common stock that we may sell to the Selling Stockholder under the Committed Equity Line as well as the Commitment Shares. This prospectus only relates to the offering of a portion of the shares of common stock that may actually be issued in connection with the Committed Equity Line. The fourth column assumes the sale of all of the shares offered by the Selling Stockholder pursuant to this prospectus.

Under the terms of the Purchase Agreement, we may not sell shares of our common stock to the Selling Stockholder if such sales would result in the Selling Stockholder or any of its affiliates beneficially owning a number of shares of our common stock which would exceed 4.99% of our outstanding shares. The number of shares

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in the second column reflects these limitations. The Selling Stockholder may sell all, some or none of its shares in this offering. See “Plan of Distribution.”

The table below is based upon 131,924,027 outstanding shares of the Company’s common stock as of December 14, 2015.

Name and Address of Selling Stockholder	Number of Shares of Common Stock Beneficially Owned Prior to the Offering	Maximum Number of Shares of Common Stock to be Sold Pursuant to this Prospectus	Number of Shares of Common Stock Owned after the Offering	Percentage of Shares of Common Stock Owned after the Offering
Redwood Management, LLC (1)	6,928,754	30,000,000	6,928,754	4.99 %

The address of the Selling Stockholder is 16850 Collins Ave., Suite 112-341, Sunny Isles, FL 33160. John DeNobile and Gary Rogers have voting and investment power over these securities. Mr. DeNobile and Mr. Rogers are the sole members and managers of the Selling Stockholder. Each of Mr. DeNobile and Mr. Rogers disclaims beneficial ownership over these securities. The Series E Preferred Stock held by the Selling Stockholder may not be converted, and shares of common stock may not be issued, to the extent that the number of shares of common stock to be issued would exceed, when aggregated with all other shares of common stock owned by the Selling Stockholder at such time, a number of shares of common stock which would result in the Selling Stockholder beneficially owning in excess of 4.99% of the then issued and outstanding shares of our common stock. As a result of this ownership cap, the Selling Stockholder beneficially owns 6,928,754 shares of our common stock.

- (1) Under the Purchase Agreement, the Selling Stockholder may increase this ownership cap on 61 days’ prior notice to us, from 4.99% up to 9.99%. If the Selling Stockholder elected to increase this ownership cap to 9.99%, it would then beneficially own 14,641,940 shares of our common stock or approximately 9.99% of our outstanding common stock.

Due to the effect of the ownership caps, the number of shares of common stock set forth in the table above as being offered by the Selling Stockholder may exceed the number of shares of common stock that the Selling Stockholder could own beneficially (after giving effect to the conversion and issuance limitations) at any given time as set forth in the Purchase Agreement, through ownership of the Series E Preferred Stock and otherwise.

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DESCRIPTION OF CAPITAL STOCK

Our authorized capital stock consists of 450,000,000 shares of common stock, \$0.0001 par value, and 25,000,000 shares of preferred stock, \$0.0001 par value. As of December 14, 2015, 750,000 shares have been designated as Series A Preferred Stock, 2,000 shares have been designated as Series B-1 Preferred Stock, 1,000 shares have been designated as Series B-2 Preferred Stock, 1,000 shares have been designated as Series C Preferred Stock, 3,000 shares have been designated as Series D Preferred Stock, 2,500 shares have been designated as Series D-1 Preferred Stock, and 2,800 shares have been designated as Series E Preferred Stock. As of December 14, 2015, we had 131,924,027 shares of common stock, 212,390 shares of Series A Preferred Stock, 1,500 shares of Series E Preferred Stock and no shares of Series B-1, Series B-2, Series C, Series D, or Series D-1 Preferred Stock outstanding.

The following is a summary of the rights of our common stock, preferred stock and certain outstanding rights to obtain our common stock. It does not purport to be complete. For more detailed information about the terms of our capital stock, please see our Amended and Restated Certificate of Incorporation, as amended (our "Certificate of Incorporation"), including the certificates of designation for series of our preferred stock, and our Second Amended and Restated Bylaws, as amended (our "Bylaws").

Common Stock

Holders of our common stock are entitled to one vote for each share on all matters submitted to a stockholder vote and may not cumulate their votes. Holders of common stock are entitled to share in all dividends that our Board, in its discretion, declares from legally available funds. In the event of our liquidation, dissolution or winding up, each outstanding share entitles its holder to participate pro rata in all assets that remain after payment of liabilities and after providing for each class of stock, if any, having preference over the common stock.

Except for TFG Radiant, which holds pre-emptive rights with respect to certain equity issuances by us (on terms no less favorable than any such issuance) in order to maintain their percentage ownership in our common stock, no other holders of our common stock have any conversion, preemptive or other subscription rights, and there are no redemption provisions applicable to our common stock. The rights of the holders of common stock are subject to any rights that may be fixed for holders of preferred stock.

Preferred Stock

Our Board is authorized by our Certificate of Incorporation to establish classes or series of preferred stock and fix the designation, powers, preferences and rights of the shares of each such class or series and the qualifications, limitations or restrictions thereof without any further vote or action by our stockholders. Any shares of preferred stock so issued could have priority over our common stock with respect to dividend or liquidation rights. Any future issuance of preferred stock may have the effect of delaying, deferring or preventing a change in our control without further action by our stockholders and may adversely affect the voting and other rights of the holders of our common stock.

The issuance of shares of preferred stock, or the issuance of rights to purchase such shares, could be used to discourage an unsolicited acquisition proposal. For instance, the issuance of a series of preferred stock might impede a business combination by including class voting rights that would enable a holder to block such a transaction. In addition, under certain circumstances, the issuance of preferred stock could adversely affect the voting power of holders of our common stock. Although our Board is required to make any determination to issue preferred stock based on its judgment as to the best interests of our stockholders, our Board could act in a manner that would discourage an acquisition attempt or other transaction that some, or a majority, of our stockholders might believe to be in their best interests or in which such stockholders might receive a premium for their stock over the then market price of such stock.

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Series A Preferred Stock
Rank

The Series A Preferred Stock ranks senior to the common stock with respect to dividends and pari passu with the common stock in rights upon liquidation.

Voting Rights

Except as otherwise required by law (or with respect to approval of certain actions), the Series A Preferred Stock does not have voting rights.

Dividends and Make-Whole Amounts

Holders of Series A Preferred Stock are entitled to cumulative dividends at a rate of 8.0% per annum (subject to adjustment in certain circumstances) when and if declared by the Board. We are obligated to pay certain make-whole amounts to the holders of Series A Preferred Stock, if the stock is redeemed or converted (as described below) prior to the fourth anniversary of its issuance date, in lieu of dividends that the stockholders would have otherwise received. The dividends and make-whole amounts (if any) may be paid in cash or in the form of common stock at the discretion of the Board.

Conversion Rights

The Series A Preferred Stock may be converted into shares of our common stock at any time at the option of the holder. In the event of a conversion by the holder, the price per share is equal to (a) Original Issue Price (as defined in the certificate of designation for the Series A Preferred Stock) multiplied by (b) the number of shares of Series A Preferred Stock shares being converted, divided by (c) the conversion price of \$8.00.

A conversion by us may be effected if certain Equity Conditions (as defined in the certificate of designation for the Series A Preferred Stock) are met and in the event that the closing price of our common stock exceeds 200% of the conversion price for any 20 consecutive trading days. In the event of a Company conversion, we shall issue the number of shares of common stock equal to (a) the Original Issue Price multiplied by (b) the number of shares of Series A Preferred Stock being converted, divided by (c) the conversion price of \$8.00.

Redemption

We have the right to redeem all or a portion of the Series A Preferred Stock at any time at a redemption price of \$8.00 per share, plus any accrued and unpaid dividends and plus the make-whole amount (if any).

Liquidation Value

Upon any liquidation, dissolution or winding up of the Company, after payment or provision for payment of our debts and other liabilities, the holders of Series A Preferred Stock shall be entitled to receive, pari passu with any distribution to the holders of our common stock, an amount equal to \$8.00 per share of Series A Preferred Stock plus any accrued and unpaid dividends.

Warrants Relating to the Series A Preferred Stock

In connection with the sale of the Series A Preferred Stock, we issued warrants to purchase up to 262,500 shares of our common stock at an exercise price of \$9.00 per share of common stock. These warrants have a three year term until June 2016.

Series E Preferred Stock

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Rank

The Series E Preferred Stock ranks senior to the common stock with respect to dividends and rights upon liquidation.

Voting Rights

Except as otherwise required by law (or with respect to approval of certain actions), the Series E Preferred Stock does not have voting rights.

Dividends

Holders of the Series E Preferred Stock are entitled to dividends in the amount of 7.00% per annum, payable when, as and if declared by our Board in its discretion.

Conversion Rights

Shares of the Series E Preferred Stock (including the amount of any accrued and unpaid dividends thereon) are convertible at the option of the holder into common stock at a variable conversion price equal to 80% of the average of the two lowest VWAPs of our common stock for the ten consecutive trading day period prior to the conversion date. If certain defined default events occur, then the conversion price would thereafter be reduced (and only reduced), to equal 70% of the average of the two lowest VWAPs of our common stock for the twenty consecutive trading day period prior to the conversion date.

No shares of the Series E Preferred, however, may be converted into common stock unless and until our stockholders approve the potential issuance of the conversion shares in accordance with applicable Nasdaq listing rules. We intend to seek such approval at a special meeting to be held in December 2015. If our stockholders do not vote to approve such issuances of our shares in accordance with such rule, then the shares of Series E Preferred Stock will not be convertible into shares of common stock.

Commitment Shares

We will issue 360,000 shares of common stock to the Selling Stockholder as a commitment fee relating to the Series E Preferred Stock within one business day after the date our stockholders approve the potential issuance of the commitment shares in accordance with applicable Nasdaq listing rules. If our stockholders do not vote to approve such issuances of our shares in accordance with such rule, then the commitment shares will not be issued.

Redemption

At any time after March 31, 2016, the holder will have the option to redeem for cash all or any portion of the outstanding shares of the Series E Preferred Stock at a price per share equal to \$1,250 plus any accrued but unpaid dividends thereon.

At any time after the third anniversary of the date of the initial issuance of Series E Preferred Stock, we will have the option to redeem for cash all outstanding shares of the Series E Preferred Stock at a price per share equal to \$1,250 plus any accrued but unpaid dividends thereon.

Liquidation Value

Upon our liquidation, dissolution or winding up, holders of Series E Preferred Stock will be entitled to be paid out of our assets, prior to the holders of our common stock, an amount equal to \$1,000 per share plus any accrued but unpaid dividends thereon.

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Series E Registration Rights Agreement

In connection with the securities purchase agreement for the Series E Preferred Stock, we entered into a related registration rights agreement agreeing to register the commitment shares and the shares of common stock which may be issued upon conversion of the Series E Preferred Stock. This resale registration statement was filed with the SEC on November 13, 2015 and became effective on November 30, 2015.

Limitations on Conversion and Issuance

Shares of common stock may not be issued under the Series E Preferred Stock if, after giving effect to the conversion or issuance, the holder together with its affiliates would beneficially own in excess of 4.99% of the outstanding shares of common stock. At each holder's option, the cap may be raised or lowered to any other percentage not in excess of 9.99%, except that any increase will only be effective upon 61-days' prior notice to us.

Senior Secured Convertible Notes

In November 2014, we issued \$32,000,000 original principal amount of senior secured convertible notes. As of December 14, 2015, approximately \$1,100,000 of these notes remains outstanding. We have agreed to repurchase \$1,000,000 of these notes for cash in December 2015.

These notes are secured by a first priority perfected security interest in substantially all of our assets (including a pledge of the stock of our subsidiaries), other than our Thornton, Colorado real estate assets that currently secure other outstanding indebtedness. Unless earlier converted or redeemed, the notes will mature in May 2018. These notes bear interest at a rate of 7% per annum, subject to increase to 15% per annum upon the occurrence and continuance of an event of default. Interest on these notes is payable monthly in shares of common stock or cash, at our option.

All amounts due under these notes are convertible at any time, in whole or in part, at the option of the holders into shares of Common Stock at a fixed conversion price of \$2.25 per share. In addition, a holder of these notes has the option to convert a portion of these notes into shares of common stock at an "alternate conversion price" equal to the lowest of (i) the fixed conversion price then in effect and (ii) 85% of the quotient of (A) the sum of the volume-weighted average price of the common stock for each of the three lowest trading days during the ten consecutive trading day period ending and including the trading day immediately prior to the date of the applicable conversion date, divided by three.

We have agreed to make amortization payments with respect to the principal amount of these notes in shares of our common stock, subject to the satisfaction of certain equity conditions, or at our option, in cash or a combination of shares of common stock and cash, in equal installments payable once every month. On each of the installment dates, our scheduled amortization payment will be an amount equal to approximately \$854,000.

For amortization payments paid in shares of common stock, the number of shares of common stock that shall be issued as an installment conversion amount shall be determined based on an installment conversion price of the lowest of (i) the fixed conversion price then in effect and (ii) 85% of the quotient of (A) the sum of the volume-weighted average price of the common stock for each of the five lowest trading days during the 20 consecutive trading day period ending and including the trading day immediately prior to the applicable installment date, divided by five.

Secured Subordinated Convertible Notes

In September 2015, we issued \$2,000,000 original principal amount of secured subordinated convertible notes. Unless earlier converted or redeemed, these notes will mature in September 2016. These notes bear interest at a rate of 8% per annum. Principal and interest on these notes is payable at maturity.

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All amounts due under these notes are convertible at any time, in whole or in part, at the option of the holder, into shares of common stock at a fixed conversion price, which is subject to adjustment for stock splits, stock dividends, combinations or similar events, of \$0.12 per share.

The secured subordinated convertible notes are secured by a security interest in substantially all of our assets (other than our Thornton, Colorado real estate assets that currently secure other outstanding indebtedness). The security interest for these notes will be subordinated to the security interest securing the outstanding senior secured convertible notes unless and until such outstanding notes are completely retired.

Authorized but Unissued Shares

The authorized but unissued shares of common stock are available for future issuance without stockholder approval, unless otherwise required by law or applicable stock exchange rules. Additional authorized but unissued shares may be used for a variety of corporate purposes, including future public offerings to raise additional capital, corporate acquisitions and employee benefit plans. The existence of authorized but unissued shares could hinder or discourage an attempt to obtain control of us by means of a proxy contest, tender offer, merger or otherwise.

2005 Stock Option Plan

Our 2005 Stock Option Plan, as amended (the "Option Plan") currently authorizes the grant of up to 5,400,000 shares of common stock in connection with incentive stock option grants and non-qualified stock option grants. Employees and, in the case of nonqualified stock options, directors, consultants or other service providers are eligible to receive grants under our plans. According to the terms of the Option Plan, no employee may be granted, in any fiscal year, options to purchase more than 500,000 shares. As of December 14, 2015, there were 1,575,811 options outstanding under our Option Plan.

2008 Restricted Stock Plan

Our 2008 Restricted Stock Plan, as amended (the "Stock Plan") currently authorizes the grant of up to 2,500,000 shares of restricted common stock and restricted stock units to employees, directors, consultants or other service providers. According to the terms of the Stock Plan, no individual may be granted, in any fiscal year, more than 200,000 shares. Vesting of shares of restricted stock granted under the Stock Plan may occur over a specified period of time or based upon performance metrics announced at the time of grant. As of December 14, 2015 there were 97,937 restricted stock units outstanding under the Stock Plan.

Anti-Takeover Effects of Certain Provisions of Delaware Law and Our Certificate of Incorporation and Bylaws

Our Certificate of Incorporation and Bylaws contain a number of provisions that could make our acquisition by means of a tender or exchange offer, a proxy contest or otherwise more difficult. These provisions are summarized below.

Removal of Directors. Our Bylaws provide that our directors may only be removed by the affirmative vote of the shares entitled to vote at an election of directors, or for cause by a majority of the Board. Although our Bylaws do not give the Board the power to approve or disapprove stockholder nominations for the election of directors or of any other business stockholders desire to conduct at an annual or any other meeting, the Bylaws may have the effect of precluding a nomination for the election of directors or precluding the conduct of business at a particular annual meeting if the proper procedures are not followed, or discouraging or deterring a third party from conducting a solicitation of proxies to elect its own slate of directors or otherwise attempting to obtain control, even if the conduct of that solicitation or attempt might be beneficial to our stockholders.

Staggered Board. Staggered terms tend to protect against sudden changes in management and may have the effect of delaying, deferring or preventing a change in our control without further action by our stockholders. Our Board is divided into three classes, with one class of directors elected at each year's annual stockholders meeting.

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Special Meetings. Our Bylaws provide that special meetings of stockholders can be called by the President, at the request of a majority of the Board or at the written request of holders of at least 50% of the shares outstanding and entitled to vote.

Undesignated Preferred Stock. The ability to authorize undesignated preferred stock makes it possible for our Board to issue preferred stock with voting or other rights or preferences that could impede the success of any attempt to acquire us. These and other provisions may have the effect of deferring hostile takeovers or delaying changes in control or management of our Company.

Delaware Anti-Takeover Statute. We are subject to the provisions of Section 203 of the Delaware General Corporation Law regulating corporate takeovers. In general, Section 203 prohibits a publicly held Delaware corporation from engaging under certain circumstances in a business combination with an interested stockholder for a period of three years following the date the person became an interested stockholder unless:

Prior to the date of the transaction that resulted in the stockholder becoming an interested stockholder, the board of directors of the corporation approved either the business combination or the transaction which resulted in the stockholder becoming an interested stockholder.

Upon completion of the transaction that resulted in the stockholder becoming an interested stockholder, the stockholder owned at least 85% of the voting stock of the corporation outstanding at the time the transaction commenced, excluding for purposes of determining the number of shares outstanding (1) shares owned by persons who are directors and also officers and (2) shares owned by employee stock plans in which employee participants do not have the right to determine confidentially whether shares held subject to the plan will be tendered in a tender or exchange offer.

On or subsequent to the date of the transaction that resulted in the stockholder becoming an interested stockholder, the business combination is approved by the board and authorized at an annual or special meeting of stockholders, and not by written consent, by the affirmative vote of at least 66 2/3% of the outstanding voting stock which is not owned by the interested stockholder.

Generally, a business combination includes a merger, asset or stock sale, or other transaction resulting in a financial benefit to the interested stockholder. An interested stockholder is a person who, together with affiliates and associates, owns or, within three years prior to the determination of interested stockholder status, did own 15% or more of a corporation's outstanding voting securities. We expect the existence of this provision to have an anti-takeover effect with respect to transactions our Board does not approve in advance. We also anticipate that Section 203 may also discourage attempts that might result in a premium over the market price for the shares of common stock held by stockholders.

The provisions of Delaware law, our Certificate of Incorporation and our Bylaws could have the effect of discouraging others from attempting hostile takeovers and, as a consequence, they may also inhibit temporary fluctuations in the market price of our common stock that often result from actual or rumored hostile takeover attempts. These provisions may also have the effect of preventing changes in our management. It is possible that these provisions could make it more difficult to accomplish transactions that stockholders may otherwise deem to be in their best interests.

Listing

Our common stock is listed on the NASDAQ Capital Market under the trading symbol "ASTI."

Transfer Agent and Registrar

The transfer agent and registrar of our common stock is Computershare Investor Services.

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MARKET PRICE OF COMMON STOCK

Market Information

Our common stock was traded on the NASDAQ Global Market until March 27, 2014. Beginning March 28, 2014, our stock traded on the NASDAQ Capital Market. Our trading symbol is "ASTI." The table below sets forth the high and low sales price information per share for our common stock for the periods indicated, as adjusted for a 1-for-10 reverse stock split of our common stock, which occurred on August 26, 2014.

Price Range of Common Stock

	High	Low
Fiscal 2013		
First Quarter	\$ 7.40	\$ 5.10
Second Quarter	\$ 9.40	\$ 5.30
Third Quarter	\$ 11.60	\$ 7.30
Fourth Quarter	\$ 10.70	\$ 6.30
Fiscal 2014		
First Quarter	\$ 7.50	\$ 6.10
Second Quarter	\$ 5.90	\$ 3.50
Third Quarter	\$ 4.70	\$ 1.82
Fourth Quarter	\$ 2.11	\$ 1.03
Fiscal 2015		
First Quarter	\$ 2.08	\$ 0.56
Second Quarter	\$ 1.22	\$ 0.52
Third Quarter	\$ 0.64	\$ 0.10
Fourth Quarter (through December 18, 2015)	\$ 0.26	\$ 0.11

On December 18, 2015, the last reported sale price of our common stock on the NASDAQ Capital Market was \$0.153 per share. As of December 18, 2015, we had 29 holders of record of our common stock. Because many of our shares of common stock are held by brokers and other institutions on behalf of stockholders, we are unable to estimate the total number of stockholders represented by these record holders.

Dividends

The holders of common stock are entitled to receive such dividends as may be declared by our Board of Directors. During the years ended December 31, 2013 and 2014 and through the date hereof, we have not paid any common stock dividends, and we do not expect to declare or pay any dividends in the foreseeable future. Payment of future dividends will be within the discretion of our Board of Directors and will depend on, among other factors, our retained earnings, capital requirements, and operating and financial condition.

PLAN OF DISTRIBUTION

The common stock offered by this prospectus is being offered by the Selling Stockholder. The common stock may be sold or distributed from time to time by the Selling Stockholder directly to one or more purchasers or through brokers, dealers, or underwriters who may act solely as agents at market prices prevailing at the time of sale, at prices related to the prevailing market prices, at negotiated prices, or at fixed prices, which may be changed. The sale of the common stock offered by this prospectus could be effected in one or more of the following methods:

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- Ordinary brokers' transactions;
- Transactions involving cross or block trades;
- Through brokers, dealers, or underwriters who may act solely as agents;
- "At the market" into an existing market for the common stock;
- In other ways not involving market makers or established business markets, including direct sales to purchasers or sales effected through agents;
- In privately negotiated transactions; or
- Any combination of the foregoing.

In order to comply with the securities laws of certain states, if applicable, the shares may be sold only through registered or licensed brokers or dealers. In addition, in certain states, the shares may not be sold unless they have been registered or qualified for sale in the state or an exemption from the state's registration or qualification requirement is available and complied with.

The Selling Stockholder is an "underwriter" within the meaning of Section 2(a)(11) of the Securities Act.

The Selling Stockholder has informed us that it intends to use an unaffiliated broker-dealer to effectuate all sales, if any, of the common stock that it may purchase from us pursuant to the Purchase Agreement. Such sales will be made at prices and at terms then prevailing or at prices related to the then current market price. Each such unaffiliated broker-dealer will be an underwriter within the meaning of Section 2(a)(11) of the Securities Act. The Selling Stockholder has informed us that each such broker-dealer will receive commissions from the Selling Stockholder that will not exceed customary brokerage commissions. In compliance with the guidelines of the Financial Industry Regulatory Authority, Inc., or FINRA, the maximum consideration or discount to be received by any FINRA member or independent broker dealer may not exceed 8% of the aggregate amount of the securities offered pursuant to this prospectus.

Brokers, dealers, underwriters or agents participating in the distribution of the shares as agents may receive compensation in the form of commissions, discounts, or concessions from the Selling Stockholder and/or purchasers of the common stock for whom the broker-dealers may act as agent. The compensation paid to a particular broker-dealer may be less than or in excess of customary commissions. Neither we nor the Selling Stockholder can presently estimate the amount of compensation that any agent will receive.

We know of no existing arrangements between the Selling Stockholder or any other stockholder, broker, dealer, underwriter or agent relating to the sale or distribution of the shares offered by this prospectus. At the time a particular offer of shares is made, a prospectus supplement, if required, will be distributed that will set forth the names of any agents, underwriters or dealers and any compensation from the Selling Stockholder, and any other required information.

We will pay all expenses of the registration of the shares of common stock pursuant to the Registration Rights Agreement, estimated to be \$45,000 in total, including, without limitation, SEC filing fees and expenses of compliance with state securities or "blue sky" laws. We have agreed to indemnify the Selling Stockholder and certain other persons against certain liabilities in connection with the offering of shares of common stock offered hereby, including liabilities arising under the Securities Act or, if such indemnity is unavailable, to contribute amounts required to be paid in respect of such liabilities. The Selling Stockholder has agreed to indemnify us against certain liabilities under the Securities Act, including liabilities that may arise from certain written information furnished to us by the Selling Stockholder specifically for use in this prospectus or, if such indemnity is unavailable, to contribute amounts required to be paid in respect of such liabilities.

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The Selling Stockholder has represented to us that at no time prior to the Purchase Agreement has the Selling Stockholder or its agents, representatives or affiliates engaged in or effected, in any manner whatsoever, directly or indirectly, any short sale (as such term is defined in Rule 200 of Regulation SHO of the Exchange Act) of our common stock or any hedging transaction, which establishes a net short position with respect to our common stock. The Selling Stockholder agreed that during the term of the Purchase Agreement, it, its agents, representatives or affiliates will not enter into or effect, directly or indirectly, any of the foregoing transactions.

We have advised the Selling Stockholder that it is required to comply with Regulation M promulgated under the Exchange Act. With certain exceptions, Regulation M precludes the Selling Stockholder, any affiliated purchasers, and any broker-dealer or other person who participates in the distribution from bidding for or purchasing, or attempting to induce any person to bid for or purchase any security which is the subject of the distribution until the entire distribution is complete. Regulation M also prohibits any bids or purchases made in order to stabilize the price of a security in connection with the distribution of that security. All of the foregoing may affect the marketability of the securities offered by this prospectus.

This offering will terminate on the date that all shares offered by this prospectus have been sold by the Selling Stockholder.

Our common stock is traded on the NASDAQ Capital Market under the symbol "ASTI."

EXPERTS

The financial statements in our Annual Report on Form 10-K for the year ended December 31, 2014 have been audited by Hein & Associates LLP, an independent registered public accounting firm, to the extent and for the periods set forth in their report, and are incorporated in this prospectus by reference in reliance upon such report and upon the authority of such firm as experts in accounting and auditing.

LEGAL MATTERS

The validity of the securities offered hereby will be passed on by Faegre Baker Daniels LLP, Boulder, Colorado.

INFORMATION INCORPORATED BY REFERENCE

This prospectus is part of a registration statement on Form S-1. The SEC allows this filing to "incorporate by reference" information that we previously have filed with the SEC. This means we can disclose important information to you by referring you to other documents that we have filed with the SEC. The information that is incorporated by reference is considered part of this prospectus. For further information about us and the securities being offered, you should refer to the registration statement and the following documents that are incorporated by reference:

• Our annual report on Form 10-K filed on March 18, 2015, which contains audited financial statements for the fiscal year ended December 31, 2014, as amended on March 19, 2015;

• Our quarterly reports on Form 10-Q filed on May 15, August 14 and November 13, 2015;

• Our current reports on Form 8-K filed on February 20, February 23, April 7, May 8, May 15, June 1, June 15, June 23, July 13, July 15, July 23, July 27, August 11, September 8, September 9, September 28, October 9, October 9, November 10, November 23, December 11 and December 18, 2015;

• All other reports filed by us pursuant to Section 13(a) or 15(d) of the Exchange Act since the end of the fiscal year covered by the annual report referred to above; and

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The description of our common stock contained in Forms 8-A filed on June 19, 2006 and August 8, 2006 and any amendments or reports filed for the purpose of updating such description.

Any statement contained in a document incorporated by reference herein shall be deemed to be modified or superseded for purposes of this prospectus to the extent that a statement contained herein or in any other subsequently filed document which also is or is deemed to be incorporated by reference herein modifies or supersedes such statement. Any statement so modified or superseded shall not be deemed, except as so modified or superseded, to constitute a part of this prospectus.

Our filings with the SEC, including our annual report on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K and amendments to those reports, are available free of charge on our website at <http://www.ascentsolar.com> as soon as reasonably practicable after they are filed with, or furnished to, the SEC. You may request a copy of all documents that are incorporated by reference in this prospectus by writing or telephoning us at the following address and telephone number: Ascent Solar Technologies, Inc., Attention: Corporate Secretary, 12300 North Grant Street, Thornton, Colorado 80241, telephone (720) 872-5000. We will provide copies of all documents requested (not including exhibits to those documents, unless the exhibits are specifically incorporated by reference into those documents or this prospectus) without charge.

WHERE YOU CAN FIND MORE INFORMATION

This prospectus is part of a registration statement on Form S-1 filed with the SEC under the Securities Act. This prospectus does not contain all the information set forth in the registration statement because certain information has been incorporated into the registration statement by reference in accordance with the rules and regulations of the SEC. Please review the documents incorporated by reference for a more complete description of the matters to which such documents relate.

We are subject to the information reporting requirements of the Exchange Act. In accordance with the Exchange Act, we file reports, proxy statements, and other information with the SEC. You can inspect and copy these reports, proxy statements, and other information at the Public Reference Room of the SEC, 100 F Street, N.E., Washington, D.C. 20549, at prescribed rates. Please call the SEC at 1-800-SEC-0330 for further information on the operation of the public reference rooms. Our SEC filings are also available on the SEC's web site. The address of this site is <http://www.sec.gov>.

INDEMNIFICATION

Our Certificate of Incorporation contains provisions that limit the liability of our directors for monetary damages to the fullest extent permitted by Delaware law. Consequently, our directors will not be personally liable to stockholders for monetary damages for any breach of fiduciary duties as directors, except liability for the following:

- Any breach of their duty of loyalty to our Company or our stockholders;
- Acts or omissions not in good faith or which involve intentional misconduct or a knowing violation of law;
- Unlawful payments of dividends or unlawful stock repurchases or redemptions as provided in Section 174 of the Delaware General Corporation Law; and
- Any transaction from which the director derived an improper personal benefit.

Our Bylaws provide that we are required to indemnify our directors and officers and may indemnify our employees and other agents to the fullest extent permitted by Delaware law. Our Bylaws also provide that we shall advance expenses incurred by a director or officer before the final disposition of any action or proceeding upon receipt of an undertaking from or on behalf of that director or officer to repay the advance if it is ultimately

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determined that he or she is not entitled to be indemnified. We have entered and expect to continue to enter into agreements to indemnify our directors, executive officers and other employees as determined by the Board. These agreements provide for indemnification for related expenses including attorneys' fees, judgments, fines and settlement amounts incurred by any of these individuals in any action or proceeding. We believe that these provisions and indemnification agreements are necessary to attract and retain qualified persons as directors and officers. We also maintain directors' and officers' liability insurance.

The limitation of liability and indemnification provisions in our Certificate of Incorporation and Bylaws may discourage stockholders from bringing a lawsuit against our directors for breach of their fiduciary duty. They may also reduce the likelihood of derivative litigation against our directors and officers, even though an action, if successful, might benefit us and other stockholders. Furthermore, a stockholder's investment may be adversely affected to the extent that we pay the costs of settlement and damage awards against directors and officers as required by these indemnification provisions. At present, there is no pending litigation or proceeding involving any of our directors, officers or employees regarding which indemnification is sought, and we are not aware of any threatened litigation that may result in claims for indemnification.

DISCLOSURE OF COMMISSION POSITION ON INDEMNIFICATION FOR SECURITIES ACT LIABILITIES

Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers or persons controlling us pursuant to the foregoing provisions, we have been informed that in the opinion of the SEC such indemnification is against public policy as expressed in the Securities Act and is therefore unenforceable.