Ascent Solar Technologies, Inc.

Form S-1

September 09, 2016

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As filed with the Securities and Exchange Commission on September 9, 2016

Registration No. 333-

**UNITED STATES** 

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM S-1

REGISTRATION STATEMENT

**UNDER** 

THE SECURITIES ACT OF 1933

ASCENT SOLAR TECHNOLOGIES, INC.

(Exact name of registrant as specified in its charter)

3674

Delaware (State or other jurisdiction of

20-3672603 incorporation or organization)

incorporation or organization) (Primary Standard Industrial Classification Code Number)

(I.R.S. Employer Identification No.)

12300 North Grant Street Thornton, Colorado 80241

(720) 872-5000

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

Victor Lee

Ascent Solar Technologies, Inc.

12300 North Grant Street

Thornton, Colorado 80241

(720) 872-5000

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

Copies to:

James Carroll

Faegre Baker Daniels LLP

1470 Walnut Street, Suite 300

Boulder, Colorado 80302

(303) 447-7700

Approximate date of commencement of proposed sale to the public: As soon as practicable after the effective date of this registration statement and from time to time thereafter.

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If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, check the following box. x

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

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

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

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

Large accelerated filero

Accelerated filer

Non-accelerated filer o (Do not check if a smaller reporting company) Smaller reporting company x

#### CALCULATION OF REGISTRATION FEE

**Proposed** Proposed

Maximum Maximum Amount of Title of Each Class of Amount to Offering Aggregate Registration Securities to be Registered be Registered(1)

Price Offering Fee

Per Share(2)Price

\$710,500 \$72 Common Stock, par value \$0.0001 35,000,000 shares (3) \$0.0203

Pursuant to Rule 416 under the Securities Act of 1933, as amended, this registration statement also covers such

- (1) additional shares as may hereafter be offered or issued to prevent dilution resulting from stock splits, stock dividends, recapitalizations or certain other capital adjustments.
  - Estimated solely for purposes of calculating the registration fee pursuant to Rule 457(c) under the Securities Act of
- (2) 1933, as amended, using the average of the high and low prices as reported on the OTCOB Venture Market on September 7, 2016, which was \$0.0203 per share.
- (3) Represents a portion of the shares potentially issuable in connection with the Company's committed equity line purchase agreement.

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

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

SUBJECT TO COMPLETION, DATED SEPTEMBER 9, 2016

**PROSPECTUS** 

ASCENT SOLAR TECHNOLOGIES, INC.

35,000,000 shares of common stock

The selling stockholder named in this prospectus is offering to sell up to 35,000,000 shares of common stock of Ascent Solar Technologies, Inc. We will not receive any proceeds from the resale of shares of our common stock by the selling stockholder.

This prospectus includes 35,000,000 shares of common stock issuable in connection with our 4% Original Issue Discount Senior Secured Convertible Promissory Notes due 2017 (the "Notes").

Our common stock is traded on the OTCQB Venture Market under the symbol "ASTI." On September 8, 2016, the last reported sale price of our common stock on the OTCQB Venture Market was \$0.0214 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 5. The selling stockholder is offering these shares of common stock. The selling stockholder may sell all or a portion of these shares from time to time in market transactions through any market on which our common stock is then traded, in negotiated transactions or otherwise, and at prices and on terms that will be determined by the then prevailing market price or at negotiated prices directly or through a broker or brokers, who may act as agent or as principal or by a combination of such methods of sale. The selling stockholder will receive all proceeds from the sale of the common stock. For additional information on the methods of sale, you should refer to the section entitled "Plan of Distribution." 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 [ ], 2016

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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.

All common stock data in this Prospectus have been adjusted to reflect the 1-for-20 reverse stock split of the Company's common stock which became effective on June 1, 2016.

#### 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<sup>TM</sup> 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<sup>TM</sup> line of consumer products, and introduced our first product, the Surfr<sup>TM</sup>, under the EnerPlex brand. The Surfr<sup>TM</sup> 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.

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<sup>TM</sup> for the Samsung® Galaxy S® III, which provides 85% additional battery life.

In December 2012, we launched the EnerPlex Kickr<sup>TM</sup> and EnerPlex Jumpr<sup>TM</sup> 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<sup>TM</sup> 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 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, 2015, our cash used in operations was \$22.1 million. For the six months ended June 30, 2016, our cash used in operations was \$10.56 million. At June 30, 2016, we had cash and equivalents of \$131,902.

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 July 13, 2016, we entered into a securities purchase agreement (the "Note SPA") with RDW Capital LLC (the "Selling Stockholder"), providing for the sale and issuance of up to \$2,080,000 of the Company's 4% Original Issue Discount Senior Secured Convertible Promissory Notes ("Notes"), for an aggregate purchase price of \$2,000,000. The Notes were to be purchased in seven tranches, ranging in amounts from \$200,000 to \$350,000. As of September 7, 2016, all of the tranches have been purchased.

Additionally, on July 13, 2016, the Company and the Selling Stockholder entered into an Exchange Agreement (the "Exchange Agreement"), pursuant to which the Selling Stockholder exchanged \$833,000 of Series H Preferred Stock for \$866,000 of Notes. As of September 7, 2016, the Company has \$2,946,000 principal amount of Notes outstanding.

In connection with the Note SPA and the Exchange 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.

This prospectus includes 35,000,000 shares of common stock which are issuable upon conversion of the Notes.

This prospectus includes 35,000,000 shares of common stock issuable in connection with the Purchase Agreement.

Common stock outstanding prior to

the offering

113,023,432\*

Common stock offered by the

Selling Stockholder

35,000,000\*\*

Common stock to be outstanding

after the offering

148,023,432\*\*

Use of proceeds

We will not receive any proceeds from the sale of the securities hereunder. See "Use of Proceeds" for a complete description.

\* As of September 7, 2016.

#### 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," "continuous 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<sup>TM</sup> 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;

Our ability to secure additional financing to fund our short-term and long-term financial needs;

<sup>\*\*</sup> Assumes the issuance of shares of common stock upon conversion of a portion of the Notes.

Our ability to maintain the listing of our common stock on the OTCQB Venture Market;

The commencement, or outcome, of legal proceedings against us, or by us, including ongoing ligation 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, 2015, 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 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 OTCQB Venture 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 \$45.8 million for the year ended December 31, 2015 and \$21.7 million for the six months ended June 30, 2016. We reported an accumulated deficit of \$366.8 million as of June 30, 2016. 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.

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<sup>TM</sup> 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 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 dependence on a small number of large customers could have a material adverse effect on our revenues and results of operations.

We depend on a small number of large customers for a significant portion of our revenues. Generally, we do not provide products to our customers under long-term contracts. If one or more of our large customers terminated an existing contract or substantially reduced the amount of products they purchase from us, our revenues and results of operations would be adversely affected.

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, 2015, our cash used in operations was \$22.1 million. For the six months ended June 30, 2016, our cash used in operations was \$10.6 million. At June 30, 2016, we had cash and equivalents of \$131,902. 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.

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 TFG Radiant, may conflict with our interests or your interests now or in the future.

As of September 7, 2016, TFG Radiant beneficially owned approximately 0.26% of our common stock. 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 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.

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;

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 OTCQB Venture 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.

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 OTCQB 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 OTCQB Venture 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. 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.

We are likely to issue substantial amounts of additional common stock in connection with (i) our outstanding shares of Series A, Series E, Series F and Series G convertible preferred stock, (ii) our outstanding Rights to Receive Common Stock dated April 29, 2016 (the "Rights"), and (iii) our outstanding Notes.

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 upon conversion of the Notes, 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.

Our common stock was recently delisted from the NASDAQ Capital Market. Our inability to maintain our listing on NASDAQ may limit the liquidity of our stock, increase its volatility and hinder our ability to raise capital. On February 25, 2016, our common stock was delisted from the NASDAQ Capital Market and began trading on the OTCQB Venture Market.

Upon such delisting, our common stock became 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. Accordingly, investors in our common stock 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 continue to be eligible for trading or quotation on the OTCQB Venture Market or any other alternative exchanges or markets.

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

We may not be able to maintain effectiveness of the registration statement of which this prospectus forms a part, which could impact the liquidity of our common stock.

Under the terms of the Registration Rights Agreement, we are obligated to include shares of common stock issuable upon conversion of the Notes 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. If the registration statement is not effective, investors' ability to sell the shares of common stock underlying the Notes, which would have a material adverse effect on the liquidity of our common stock.

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, one of our significant stockholders, 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.

RATIO OF EARNINGS TO COMBINED FIXED CHARGES AND PREFERRED STOCK DIVIDENDS We did not have any earnings for the six months ended June 30, 2016 or the years ended December 31, 2015, 2014, 2013, 2012 and 2011. For this reason, no ratios are provided for these periods.

#### SALE OF THE NOTES

On July 13, 2016, we entered into a securities purchase agreement (the "Note SPA") with RDW Capital LLC (the "Selling Stockholder"), providing for the sale and issuance of up to \$2,080,000 of the Company's 4% Original Issue Discount Senior Secured Convertible Promissory Notes ("Notes"), for an aggregate purchase price of \$2,000,000. The Notes were to be purchased in seven tranches, ranging in amounts from \$200,000 to \$350,000. As of September 7, 2016, all of the tranches have been purchased.

Additionally, on July 13, 2016, the Company and the Selling Stockholder entered into an Exchange Agreement (the "Exchange Agreement"), pursuant to which the Selling Stockholder exchanged \$833,000 of Series H Preferred Stock for \$866,000 of Notes. As of September 7, 2016, the Company has approximately \$2,946,000 principal amount of Notes outstanding.

In connection with the Note SPA and the Exchange 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. The Registration Rights Agreement requires the Company to file this resale registration statement with the Securities and Exchange Commission (the "SEC") within 60 days of the date of the Note SPA, and to have such registration statement declared effective within 30 days after such filing.

This prospectus includes 35,000,000 shares of common stock which are issuable upon conversion of the Notes.

#### Terms of the Notes

Unless earlier converted or prepaid, all of the Notes will mature July 13, 2017 (the "Maturity Date"). The Notes bear interest at a rate of 10% per annum, subject to increase to 24% per annum upon the occurrence and continuance of an event of default (as described below). Principal on the Notes is payable on the Maturity Date. Interest on the Notes is payable quarterly. Principal and interest are payable in cash or, if specified equity conditions are met, shares of Common Stock.

The Notes contain standard and customary events of default including but not limited to: (i) failure to make payments when due under the Notes; (ii) the closing price of the Company's common stock, as quoted on the OTCQB Venture Market, is below \$0.05; and (iii) bankruptcy or insolvency of the Company. If there is an event of default, a holder of the Notes may require the Company to immediately repay the Notes in cash, at a price equal to 125% of the principal amount and accrued and unpaid interest.

All principal and accrued interest on the Notes are convertible at any time, in whole or in part, at the option of the Investor into shares of Common Stock at a variable conversion price equal to the lowest of (i) \$0.045 (the "Fixed Conversion Price"), (ii) 70% of the lowest volume weighted average price ("VWAP") of our Common Stock for the ten consecutive trading day period prior to the conversion date or (iii) 70% of the lowest closing bid price of our Common Stock for the ten consecutive trading day period prior to the conversion date. If certain defined triggering events occur, then the conversion price would thereafter be reduced (and only reduced), to equal 60% of the lower of (i) the lowest closing bid price of the Common Stock for the thirty consecutive trading day period prior to the conversion date or (ii) the lowest VWAP of the Common Stock for the thirty consecutive trading day period prior to the conversion date. In addition, on the 90th day and also on the 180th day from the date of the Note SPA, the Investor may reset the Fixed Conversion Price to thereafter be equal to the VWAP of the Common Stock for such day or if such 90th or 180th day is not a trading day, then the VWAP for the immediately preceding trading day.

The Notes may not be converted and shares of Common Stock may not be issued pursuant to the Notes if, after giving effect to the conversion or issuance, the holder together with its affiliates would beneficially own in excess of 9.99% of the outstanding shares of Common Stock. At the holder's option, the cap may be raised or lowered from time to time

to any other percentage not in excess of 9.99%, except that any increase will only be effective upon 61-days' prior notice to the Company.

The Notes will be secured by a security interest in substantially all of the Company's assets. The subsidiaries of the Company have guaranteed the Company's obligations under the Notes.

#### SELLING STOCKHOLDER

The shares of common stock being offered by the Selling Stockholder are those issuable to the Selling Stockholder upon conversion of the Notes. 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 and its affiliates have not had any material relationship with us within the past three years except for (i) the ownership of the Notes, (ii) the ownership of Series E, Series F, and Series H Preferred Stock, and (ii) the committed equity line of up to \$32.2 million with the Selling Stockholder (and related shares of common stock paid as a commitment fee) which 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, preferred stock and Notes as of September 7, 2016, assuming conversion by the Selling Stockholder of the Notes owned by the Selling Stockholder on that date but taking into account 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 35,000,000 shares of common stock that may be issuable upon conversion of the Notes. This prospectus may only relate to the offering of a portion of the shares of common stock that may actually be issued in connection with the Notes. 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 Note SPA, 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 9.99% of our outstanding shares. The number of shares 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 113,023,432 outstanding shares of the Company's common stock as of September 7, 2016.

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	Number of Shares of Common Stock Owned after the Offering	Percentage of Shares of Common Stock Owned after the	e
RDW Capital LLC (1)	12,544,207	Prospectus 35,000,000	12,544,207	Offering 9.99	%
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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 Selling Shareholder, together with its affiliates, currently own approximately \$2,946,000 of Notes, 214 shares of Series E Preferred Stock, and 676 shares of Series F Preferred Stock. The Notes, Series E Preferred Stock and Series F 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 securities of the Company owned by the Selling

(1) Stockholder at such time, a number of shares of common stock which would result in the Selling Stockholder beneficially owning in excess of 9.99% of the then issued and outstanding shares of our common stock. As a result of this ownership cap, the Selling Stockholder beneficially owns 12,544,207 shares of our 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 Note SPA through ownership of the Notes or otherwise.

#### 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 September 7, 2016, 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 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, 2,800 shares have been designated as Series E Preferred Stock, 7,000 shares have been designated as Series F Preferred Stock, 2,000 shares have been designated as Series G Preferred Stock, 2,500 shares have been designated as Series H Preferred Stock, and 1,000 shares have been designated as Series I Preferred Stock. As of September 7, 2016, we had 113,023,432 shares of common stock, 165,541 shares of Series A Preferred Stock, 214,392 shares of Series E Preferred Stock, 675,950 shares of Series F Preferred Stock, 2,000,000 shares of Series G Preferred Stock, and 326 shares of Series I Preferred Stock and no shares of Series B-1, Series B-2, Series C, Series D, Series D-1 or Series H 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.

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 \$160.00.

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 \$160.00.

#### 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.

Series E Preferred Stock

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.

#### 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.

# 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.

# Series F Preferred Stock Rank

The Series F 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 F Preferred Stock does not have voting rights.

#### Dividends

Holders of the Series F 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 F 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 fixed conversion price equal to \$5.00 per share. 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 two lowest volume weighted average prices ("VWAPs") of our common stock for the twenty consecutive trading day period prior to the conversion date.

#### Redemption

The Company will make weekly redemptions of shares of Series F Preferred Stock (including any accrued and unpaid dividends thereon) beginning February 15, 2016.

If the redemption price is paid by the Company in cash, the number of shares to be redeemed in each weekly increment shall be 250 shares of Series F Preferred Stock, and the redemption price shall be at a price per share equal to \$1,250 plus any accrued but unpaid dividends thereon.

The Company shall have the option to make such redemption payments in shares of common stock provided certain specified equity conditions are satisfied at the time of payment. The number of shares of common stock to be issued would be calculated using a per share price equal to 80% of the one lowest VWAP of our common stock for the ten consecutive trading day period prior to the payment date.

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For redemption payments made in shares of common stock, the Company will redeem either (i) 250 shares of Series F Preferred Stock or (ii) such greater number of shares of Series F Preferred Stock (and also including any accrued and unpaid dividends) that would result upon redemption in the issuance of a number of shares of common stock equal to 12% of the aggregate composite trading volume for the Company's common stock during the preceding calendar week.

#### Liquidation Value

Upon our liquidation, dissolution or winding up, holders of Series F 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.

#### Limitations on Conversion and Issuance

Shares of common stock may not be issued under the Series F Preferred Stock if, after giving effect to the conversion or issuance, the holder together with its affiliates would beneficially own in excess of 9.99% 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 19.99%, except that any increase will only be effective upon 61-days' prior notice to us.

#### Series G Preferred Stock

Rank

The Series G 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 G Preferred Stock does not have voting rights.

## Dividends

Holders of the Series G Preferred Stock are entitled to dividends in the amount of 10.00% per annum, payable when, as and if declared by our Board in its discretion.

#### Conversion Rights

Shares of the Series G 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 fixed conversion price equal to \$1.00 per share.

# Redemption

One year after issuance, the Company is required to redeem for cash all or any portion of the outstanding shares of the Series G Preferred Stock at a price per share equal to \$1,000 plus any accrued but unpaid dividends thereon.

#### Liquidation Value

Upon our liquidation, dissolution or winding up, holders of Series G 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.

#### Limitations on Conversion and Issuance

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Shares of common stock may not be issued under the Series G Preferred Stock if, after giving effect to the conversion or issuance, the holder together with its affiliates would beneficially own in excess of the lesser of (i) 9.9% of the outstanding shares of common stock or (ii) such lesser percentage as may be stated in a holder's securities purchase agreement with the Company. At each holder's option, the cap may be raised or lowered to any other percentage not in excess of 19.99%, except that any increase will only be effective upon 61-days' prior notice to us.

Series I Preferred Stock

Rank

The Series I 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 I Preferred Stock does not have voting rights.

Dividends

Holders of the Series I Preferred Stock are entitled to dividends in the amount of 10.00% per annum, payable when, as and if declared by our Board in its discretion.

## Conversion Rights

Shares of the Series I 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 fixed conversion price equal to \$0.03 per share.

# Redemption

One year after issuance, the Company is required to redeem for cash all or any portion of the outstanding shares of the Series I Preferred Stock at a price per share equal to \$1,000 plus any accrued but unpaid dividends thereon.

#### Liquidation Value

Upon our liquidation, dissolution or winding up, holders of Series I 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.

#### Limitations on Conversion and Issuance

Shares of common stock may not be issued under the Series I Preferred Stock if, after giving effect to the conversion or issuance, the holder together with its affiliates would beneficially own in excess of the lesser of (i) 9.9% of the outstanding shares of common stock or (ii) such lesser percentage as may be stated in a holder's securities purchase agreement with the Company. At each holder's option, the cap may be raised or lowered to any other percentage not in excess of 19.99%, except that any increase will only be effective upon 61-days' prior notice to us.

Notes

See "Offering of the Notes" for a description of the terms of the Notes.

Rights to Receive Common Stock

In April 2016, we entered into exchange agreements (the "Exchange Agreements"), with two holders of outstanding secured convertible notes (approximately \$2.1 million of outstanding principal and accrued interest). Under the terms of the Exchange Agreements, the secured convertible notes (approximately \$2.1 million of outstanding principal and accrued interest) were cancelled. In exchange, the Company has issued to the former noteholders rights to receive a fixed number of shares of common stock of the Company in accordance with the terms of Rights to Receive Common Stock dated April 29, 2016 (the "Rights"). The Rights obligate the Company to issue to the holders (without the payment of any additional consideration) an aggregate of approximately 2.1 million shares of common stock. The Rights obligate the Company to issue to the holders upon request (without the payment of any additional consideration) an aggregate of approximately 2.1 million shares of common stock (the "Right Shares"). The number of Right Shares is fixed, and is only subject to customary non-price based ratable adjustments. The Rights expire on April 29, 2021.

The holders will not be able to exercise the Rights and receive Right Shares to the extent that after giving effect to such issuance after exercise, the holder would beneficially own in excess of 4.9% (in the case of one former noteholder) or 9.9% (in the case of the other former noteholder) of the number of shares of the Company's common stock outstanding immediately after giving effect to the issuance of shares of the Company's common stock issuable upon exercise of the applicable Right. Each holder may decrease their applicable ownership limitation at any time and each holder, upon not less than 61 days' prior notice to the Company, may increase their applicable beneficial ownership limitation provided that the applicable beneficial ownership limitation may in no event exceed 9.99% of the number of shares of the Company's common stock outstanding immediately after giving effect to the issuance of shares of the Company's common stock upon exercise of the applicable Right.

#### 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 270,000 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 25,000 shares. As of September 7, 2016, there were 84.683 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 750,000 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 100,000 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 September 7, 2016 there were 173,261 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. 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.

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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 quoted on the OTCQB Venture Market under the trading symbol "ASTI." Transfer Agent and Registrar

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

#### MARKET PRICE OF COMMON STOCK

Market Information

Our common stock was listed on the NASDAQ Global Market until March 27, 2014. Beginning March 28, 2014, our stock was listed on the NASDAQ Capital Market. Since February 25, 2016, our stock has been quoted on the OTCQB Venture 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 (i) 1-for-10 reverse stock split of our common stock, which occurred on August 26, 2014, and (ii) 1-for-20 reverse stock split of our common stock, which occurred on June 1, 2016.

#### Price Range of Common Stock

	High	Low
Fiscal 2014		
First Quarter	\$150.00	\$122.00
Second Quarter	\$118.00	\$70.00
Third Quarter	\$94.00	\$36.40
Fourth Quarter	\$42.20	\$20.60
Fiscal 2015		
First Quarter	\$41.60	\$11.20
Second Quarter	\$24.40	\$10.40
Third Quarter	\$12.80	\$2.00
Fourth Quarter	\$5.20	\$2.20
Fiscal 2016		
First Quarter	\$2.98	\$0.92
Second Quarter	\$1.40	\$0.05
Third Quarter (through September 7, 2016)	\$0.08	\$0.02

On September 8, 2016, the last reported sale price of our common stock on the OTCQB Venture Market was \$0.0214 per share. As of September 7, 2016, we had 30 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, 2014 and 2015 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

We are registering shares of common stock issuable in connection with the Notes to permit the resale of these shares of common stock by the holders of the Notesk from time to time after the date of this prospectus. We will not receive any of the proceeds from the sale by the Selling Stockholder of the shares of common stock. We will bear all fees and expenses incident to our obligation to register the shares of common stock.

The Selling Stockholder may sell all or a portion of its shares of common stock offered hereby from time to time directly or through one or more underwriters, broker-dealers or agents. If the shares of common stock are sold through underwriters or broker-dealers, the Selling Stockholder will be responsible for underwriting discounts or commissions or agent's commissions. The shares of common stock may be sold in one or more transactions at fixed prices, at prevailing market prices at the time of the sale, at varying prices determined at the time of sale or at negotiated prices. These sales may be effected in transactions, which may involve crosses or block transactions, pursuant to one or more of the following methods:

on any national securities exchange or quotation service on which the securities may be listed or quoted at the time of sale;

in the over-the-counter market;

in transactions otherwise than on these exchanges or systems or in the over-the-counter market;

through the writing or settlement of options, whether such options are listed on an options exchange or otherwise; ordinary brokerage transactions and transactions in which the broker-dealer solicits purchasers;

block trades in which the broker-dealer will attempt to sell the shares as agent but may position and resell a portion of the block as principal to facilitate the transaction;

purchases by a broker-dealer as principal and resale by the broker-dealer for its account;

an exchange distribution in accordance with the rules of the applicable exchange;

privately negotiated transactions;

broker-dealers may agree with a selling security holder to sell a specified number of such shares at a stipulated price per share;

a combination of any such methods of sale; and

any other method permitted pursuant to applicable law.

The Selling Stockholder may also sell shares of common stock under Rule 144 promulgated under the Securities Act, if available, rather than under this prospectus. In addition, the Selling Stockholder may transfer the shares of common stock by other means not described in this prospectus. If the Selling Stockholder effects such transactions by selling shares of common stock to or through underwriters, broker-dealers or agents, such underwriters, broker-dealers or agents may receive commissions in the form of discounts, concessions or commissions from the Selling Stockholder or commissions from purchasers of the shares of common stock for whom they may act as agent or to whom they may sell as principal (which discounts, concessions or commissions as to particular underwriters, broker-dealers or agents may be in excess of those customary in the types of transactions involved. The Selling Stockholder may also loan or pledge shares of common stock to broker-dealers that in turn may sell such shares.

The Selling Stockholder may pledge or grant a security interest in some or all of the Notes or shares of common stock owned by them and, if they default in the performance of their secured obligations, the pledgees or secured parties may offer and sell the shares of common stock from time to time pursuant to this prospectus or any amendment to this prospectus under Rule 424(b)(3) or other applicable provision of the Securities Act amending, if necessary, the list of selling stockholders to include the pledgee, transferee or other successors in interest as selling stockholders under this prospectus. The Selling Stockholder also may transfer and donate the shares of common stock in other circumstances in which case the transferees, donees, pledgees or other successors in interest will be the selling beneficial owners for purposes of this prospectus.

To the extent required by the Securities Act and the rules and regulations thereunder, the Selling Stockholder and any broker-dealer participating in the distribution of the shares of common stock may be deemed to be "underwriters" within the meaning of the Securities Act, and any commission paid, or any discounts or concessions allowed to, any such broker-dealer may be deemed to be underwriting commissions or discounts under the Securities Act. At the time a particular offering of the shares of common stock is made, a prospectus supplement, if required, will be distributed, which will set forth the aggregate amount of shares of common stock being offered and the terms of the offering, including the name or names of any broker-dealers or agents, any discounts, commissions and other terms constituting compensation from the Selling Stockholder and any discounts, commissions or concessions allowed or re-allowed or paid to broker-dealers.

Under the securities laws of some states, the shares of common stock may be sold in such states only through registered or licensed brokers or dealers. In addition, in some states the shares of common stock may not be sold

unless such shares have been registered or qualified for sale in such state or an exemption from registration or qualification is available and is complied with.

There can be no assurance that the Selling Stockholder will sell any or all of the shares of common stock registered pursuant to the registration statement, of which this prospectus forms a part.

The Selling Stockholder and any other person participating in such distribution will be subject to applicable provisions of the Exchange Act and the rules and regulations thereunder, including, without limitation, to the extent applicable, Regulation M of the Exchange Act, which may limit the timing of purchases and sales of any of the shares of common stock by the Selling Stockholder and any other participating person. To the extent applicable, Regulation M may also restrict the ability of any person engaged in the distribution of the shares of common stock to engage in market-making activities with respect to the shares of common stock. All of the foregoing may affect the marketability of the shares of common stock and the ability of any person or entity to engage in market-making activities with respect to the shares of common stock.

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; provided, however, the Selling Stockholder will pay all underwriting discounts and selling commissions, if any. We will indemnify the Selling Stockholder against liabilities, including some liabilities under the Securities Act in accordance with the Registration Rights Agreements or the Selling Stockholder will be entitled to contribution. We may be indemnified by the Selling Stockholder against civil liabilities, including liabilities under the Securities Act that may arise from any written information furnished to us by the Selling Stockholder specifically for use in this prospectus, in accordance with the related Registration Rights Agreement or we may be entitled to contribution.

Once sold under the registration statement, of which this prospectus forms a part, the shares of common stock will be freely tradable in the hands of persons other than our affiliates.

Our common stock is traded on the OTCQB Venture Market under the symbol "ASTI." EXPERTS

The financial statements in our Annual Report on Form 10-K for the year ended December 31, 2015 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 11, 2016, which contains audited financial statements for the fiscal year ended December 31, 2015;

Our definitive proxy statement on Schedule 14A filed on April 22, 2016;

Our quarterly reports on Form 10-Q filed on May 12 and August 15, 2016;

Our current reports on Form 8-K filed on January 20, February 20, February 23, May 2, May 19, May 19, June 2, June 9, July 14, July 28 and September 1, 2016;

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

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 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.

# DEALER PROSPECTUS DELIVERY OBLIGATION

Until the date that is 90 days from the date of this prospectus, all dealers that effect transactions in these securities, whether or not participating in this offering, may be required to deliver a prospectus. This is in addition to the dealers' obligation to deliver a prospectus when acting as underwriters and with respect to their unsold allotments or subscriptions.

#### **PART II**

# INFORMATION NOT REQUIRED IN PROSPECTUS

Item 13. Other Expenses of Issuance and Distribution.

The estimated expenses of the offering, all of which are to be borne by the Company, are as follows:

SEC Registration Fee \$72
Printing and Engraving \* 5,000
Accounting Fees and Expenses \* 15,000
Legal Fees and Expenses \* 15,000
Transfer Agent Fees \* 5,000
Miscellaneous \* 4,928
Total\* \$45,000

#### Item 14. Indemnification of Directors and Officers.

Under Delaware law, a corporation may indemnify any person who was or is a party or is threatened to be made a party to an action (other than an action by or in the right of the corporation) by reason of his or her service as a director or officer of the corporation, or his or her service, at the corporation's request, as a director, officer, employee or agent of another corporation or other enterprise, against expenses (including attorneys' fees) that are actually and reasonably incurred by such person ("Expenses"), and judgments, fines and amounts paid in settlement that are actually and reasonably incurred by such person, in connection with the defense or settlement of such action, provided that such person acted in good faith and in a manner he or she reasonably believed to be in or not opposed to the corporation's best interests, and, with respect to any criminal action or proceeding, had no reasonable cause to believe that his or her conduct was unlawful. Although Delaware law permits a corporation to indemnify any person referred to above against Expenses in connection with the defense or settlement of an action by or in the right of the corporation, provided that such person acted in good faith and in a manner he or she reasonably believed to be in or not opposed to the corporation's best interests, if such person has been judged liable to the corporation, indemnification is only permitted to the extent that the Court of Chancery (or the court in which the action was brought) determines that, despite the adjudication of liability, such person is entitled to indemnity for such Expenses as the court deems proper. The General Corporation Law of the State of Delaware also provides for mandatory indemnification of any director, officer, employee or agent against Expenses to the extent such person has been successful in any proceeding covered by the statute. In addition, the General Corporation Law of the State of Delaware provides the general authorization of advancement of a director's or officer's litigation expenses in lieu of requiring the authorization of such advancement by the board of directors in specific cases, and that indemnification and advancement of expenses provided by the statute shall not be deemed exclusive of any other rights to which those seeking indemnification or advancement of expenses may be entitled under any bylaw, agreement or otherwise. The Bylaws of the Company provide for the broad indemnification by the directors and officers of the Company and for advancement of litigation expenses to the fullest extent permitted by current Delaware law. The Company also has entered into indemnification contracts with its directors and officers.

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<sup>\*</sup> Estimated

The Company maintains a policy of directors and officers liability insurance which reimburses the Company for expenses which it may incur in connection with the foregoing indemnity provisions and which may provide direct indemnification to directors and officers where the Company is unable to do so.

Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers and controlling persons of the Company pursuant to the above, the Company has been advised that in the opinion of the SEC such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable. Item 15. Recent Sales of Unregistered Securities.

The Company has sold the securities described below within the past three years that were not registered under the Securities Act. All share and per share amounts included in this Item 15 have been retroactively adjusted to reflect (i) the Company's 1-for-10 reverse stock split of its common stock, which occurred on August 26, 2014 and (ii) the Company's 1-for-20 reverse stock split of its common stock, which occurred on June 1, 2016.

In January 2013, the Company retained a consulting firm to provide certain consulting services relating to the retail distribution of the Company's consumer products. In exchange for the consulting services, the Company issued to the consulting firm 1,200 shares of the Company's common stock.

In April 2013, the Company issued 12,500 shares of the Company's common stock to Foo Joo Loong in a private placement at a per share price of \$114.00. The Company received proceeds of \$1,425,000 from this transaction. The Company issued to Seow Seng Wei in three tranches a total of (i) 750,000 shares of Series A Preferred Stock at a price of \$8.00 per share and (ii) warrants to purchase up to 262,500 shares of the Company's common stock, resulting in gross proceeds of \$6,000,000 to the Company. The warrants have a three year term and an exercise price of \$180.00 per share of the Company's common stock. At the first closing on June 17, 2013, the Company issued 125,000 shares of Series A preferred stock and a warrant to purchase 2,187 shares of the Company's common stock in exchange for gross proceeds of \$1,000,000. At the second closing on August 7, 2013, the Company issued 375,000 shares of Series A preferred stock and a warrant to purchase 6,563 shares of the Company's common stock in exchange for gross proceeds of \$3,000,000. At the third closing on August 15, 2013, the Company issued 250,000 shares of Series A preferred stock and a warrant to purchase 4,375 shares of the Company's common stock in exchange for gross proceeds of \$2,000,000.

On April 1, 2014, the Company entered into the stock purchase agreement with Ironridge Technology Co., a division of Ironridge Global IV, Ltd. ("Ironridge"), to offer in two tranches up to a total of 600 shares of Series C preferred stock. In the first tranche, on April 1, 2014, Ironridge purchased 300 shares of Series C preferred stock from the Company at a price of \$10,000.00 per share of Series C preferred stock, which resulted in gross proceeds to the Company of \$3,000,000. In the second tranche, on May 29, 2014, Ironridge purchased 300 shares of Series C Preferred Stock from the Company at a price of \$10,000.00 per share of Series C Preferred Stock, which resulted in gross proceeds to the Company of \$3,000,000. On May 1, 2014, the Company issued an additional 30 shares of Series C preferred stock to Ironridge in accordance with a registration rights agreement between the Company and Ironridge.

On July 29, 2014, the Company entered into a securities purchase agreement with SHTARD Enterprises Ltd. to offer in two tranches up to a total of 60,000 shares of the Company's common stock at a price of \$66.00 per share, and gross proceeds of up to \$4,000,000. The first tranche closed on July 29, 2014, with the Company's issuing 20,000 shares of the Company's common stock in exchange for gross proceeds of \$1,320,000. The second tranche closed on August 11, 2014, with the Company's issuing 40,000 shares of the Company's common stock in exchange for gross proceeds of \$2,640,000.

On August 29, 2014, the Company entered into a securities purchase agreement with Seng Wei Seow and TFG Radiant for a private placement of a total of 155,781 shares of the Company's common stock which resulted in gross

II - 2

proceeds of approximately \$8,000,000 to the Company. The private placement took place in two tranches. In the first tranche, which closed on August 29, 2014, the Company issued (i) 42,266 shares of common stock to Seow and (ii) 42,266 shares of common stock to TFG Radiant, all at a price of \$47.32 per share, resulting in gross proceeds of approximately \$4,000,000 to the Company. For the second tranche, which closed on November 11, 2014, the Company issued 71,249 shares of common stock to TFG Radiant at a price of \$56.00 per share, which resulted in gross proceeds of approximately \$4,000,000 to the Company.

On November 14, 2014, the Company entered into a securities purchase agreement with Hudson Bay Master Fund Ltd. Pursuant to the terms of the agreement, the Company sold to the investor (i) 3,000 shares of Series D Preferred Stock in exchange for \$3,000,000, (ii) \$32,000,000 original principal amount of senior secured convertible notes, and (iii) warrants to purchase up to 388,889 shares of the Company's common stock. At the closing on November 19, 2014, the Company entered into (i) a registration rights agreement with the investor, (ii) a security and pledge agreement in favor of the collateral agent for the investor, and (iii) certain account control agreements with several banks with respect to restricted control accounts described in the agreement. The Company received gross proceeds of approximately \$4,500,000 at the closing and the remaining \$30,500,000 of gross proceeds was deposited by the investor into restricted control accounts on the closing date.

On February 19, 2015, the Company entered into a securities purchase agreement to issue 2,500 shares of Series D-1 Preferred Stock to Hudson Bay Master Fund Ltd. in exchange for \$2,500,000. The transaction closed on February 25, 2015.

On April 6, 2015, the Company entered into a securities purchase agreement with TFG Radiant for a private placement of a total of 50,000 shares of the Company's common stock, which resulted in gross proceeds of approximately \$1,000,000 to the Company. The transaction closed on April 17, 2015.

On June 10, 2015, the Company entered into a securities purchase agreement with TFG Radiant for a private placement of a total of 50,000 shares of the Company's common stock, which resulted in gross proceeds of approximately \$1,000,000 to the Company. The transaction closed on July 10, 2015.

On September 4, 2015, the Company entered into a note purchase agreement between the Company, Global Ichiban Limited and Seng Wei Seow. Pursuant to the agreement, the Company issued to the investors \$1,500,000 original principal amount of secured subordinated convertible notes on September 4, 2015, and an additional \$500,000 original principal amount of secured subordinated convertible notes on September 28, 2015.

On November 4, 2015 the Company entered into a securities purchase agreement with an investor for the private placement of up to \$2,800,000 of the Company's Series E Preferred Stock. On November 4, 2015, the Company sold and issued 1,000 shares of Series E Preferred Stock to the Selling Stockholder in exchange for \$1,000,000. On November 19, 2015, the Company sold and issued an additional 500 shares of Series E Preferred Stock to the Selling Stockholder in exchange for \$500,000. On December 1, 2015, the Company sold and issued an additional 1,300 shares of Series E Preferred Stock to the Selling Stockholder in exchange for \$1,300,000. As consideration for entering into the Series E purchase agreement, the Company issued to the Selling Stockholder 18,000 shares of common stock on December 18, 2015.

On November 10, 2015, the Company and an investor entered into a Committed Equity Line Purchase Agreement and the Registration Rights Agreement. Under the terms of the Purchase Agreement, at its option, the Company has the right to sell to the investor, and the investor is obligated to purchase from the Company, up to \$32,200,000 of the Company's common stock, subject to certain limitations, from time to time, over the 36-month period commencing December 18, 2015. To date, the Company has issued a total of 1,368,000 shares of common stock to the investor under the Committed Equity Line Purchase Agreement. As consideration for entering into the Committed Equity Line Purchase Agreement, the Company issued to the investor 132,000 shares of common stock.

On April 29, 2016, the Company entered into securities purchase agreements with two accredited investors for the private placement of \$2,000,000 of the Company's newly designated Series G Convertible Preferred Stock ("Series G Preferred Stock"). The Company issued a total of 500 shares of Series G Preferred Stock to the investors

in exchange for \$500,000 at closing. The Company sold an additional 1,500 shares of Series G Preferred Stock to the investors in three subsequent closings that occurred in May 2016, which resulted in additional gross proceeds to the Company of \$1,500,000.

On April 29, 2016, the Company entered into Exchange Agreements (the "Exchange Agreements"), with two holders of the Company's outstanding secured convertible notes. Under the terms of the Exchange Agreements, the secured convertible notes were cancelled. In exchange, the Company issued to the former noteholders rights to receive a fixed number of shares of common stock of the Company in accordance with the terms of Rights to Receive Common Stock dated April 29, 2016 (the "Rights"). The Rights obligate the Company to issue to the holders (without the payment of any additional consideration) an aggregate of approximately 2.1 million shares of common stock. The Rights obligate the Company to issue to the holders upon request (without the payment of any additional consideration) an aggregate of approximately 2.1 million shares of common stock (the "Right Shares").

On June 9, 2016 the Company entered into a securities purchase agreement with the Selling Stockholder for the private placement of up to \$2,500,000 of the Company's Series H Preferred Stock. On June 9, 2016, the Company sold and issued 250 shares of Series H Preferred Stock to the Selling Stockholder in exchange for \$250,000. The Company will sell and issue an additional 250 shares of Series H Preferred Stock to the Selling Stockholder in exchange for \$250,000 on June 23, 2016. The Company will sell and issue an additional 2,000 shares of Series H Preferred Stock to the Selling Stockholder in exchange for \$2,000,000 within three business days after the effectiveness of this registration statement. The securities purchase agreement relating to the Series H Preferred Stock was subsequently terminated after the issuance of 830 shares of Series H Preferred Stock.

On July 13, 2016, the Company entered into the Note SPA with the Selling Stockholder for the private placement and issuance of the Notes. The Company has issued \$2,080,000 aggregate principal amount of Notes to the Selling Stockholder in exchange for aggregate gross proceeds of \$2,000,000. In addition, pursuant to a related exchange agreement with the Selling Stockholder, the Company has issued \$866,427 aggregate principal amount of Notes to the Selling Stockholder in exchange for 830 shares of Series H Preferred Stock (which shares of Series H Preferred Stock have been cancelled).

On July 26, 2016, the Company entered into a securities purchase agreement with an accredited investor for the private placement of 536 shares of the Company's Series I Preferred Stock. On June 26, 2016, the Company sold and issued 536 shares of Series I Preferred Stock to the investor in exchange for the cancellation of principal and interest on a \$500,000 promissory note held by such investor.

On August 29, 2016, the Company entered into a securities purchase agreement with an accredited investor for the private placement of an unsecured promissory note. On August 29, 2016, the Company sold and issued \$330,000 principal amount of the promissory note to the investor in exchange for gross proceeds of \$300,000.

The securities described above were deemed exempt from registration under the Securities Act in reliance upon Section 3(a)(9), Section 4(a)(2) or Regulation D of the Securities Act. There were no underwriters employed in connection with any of the transactions set forth in this Item 15.

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Item 16. Exhibits.

Exhibit

Description Number

Amended and

Restated

Certificate of

Incorporation

(incorporated

by reference

to Exhibit 3.2

3.1 to our

Registration

Statement on

Form SB-2

filed January

23, 2006

(Reg. No.

333-131216))

Certificate of

Amendment

to the

Amended and

Restated

Certificate of

Incorporation

(incorporated

by reference 3.2

to Exhibit 3.1

to our

Quarterly

Report on

Form 10-Q

for the quarter

ended

September 30,

2011)

3.3 Certificate of

Amendment

to the

Amended and

Restated

Certificate of

Incorporation

(incorporated

by reference

to Exhibit 3.1

to our Current

Report on

Form 8-K filed February 11, 2014) Certificate of Amendment to the Amended and

Restated

Certificate of

Incorporation

(incorporated

by reference

to Exhibit 3.1

to our Current

Report on

Form 8-K

filed

3.4

September 2,

2014)

Certificate of

Amendment

to the

Amended and

Restated

Certificate of

Incorporation

3.5 (incorporated

by reference

to Exhibit 3.1

to our Current

Report on

Form 8-K

dated October

28, 2014)

Certificate of

Amendment

to the

Amended and

Restated

Certificate of

Incorporation

(incorporated

by reference

to Exhibit 3.1

to our Current

Report on

Form 8-K

dated

December 23,

2014)

3.6

Certificate of

Amendment

to the

Amended and

Restated

Certificate of

Incorporation

(incorporated

by reference

to Exhibit 3.1

to our Current

Report on

Form 8-K

dated June 2,

2016)

Second

Amended and

Restated

**Bylaws** 

(incorporated

by reference

3.8 to Exhibit 3.2

to our Current

Report on

Form 8-K

filed on

February 17,

2009)

First

Amendment

to Second

Amended and

Restated

**Bylaws** 

(incorporated

by reference

3.9 to Exhibit 3.3

to our

Quarterly

Report on

Form 10-Q

for the quarter

ended

September 30,

2009)

3.10 Second

Amendment

to Second

Amended and

Restated

Bylaws

(incorporated

by reference

to Exhibit 3.1

to our Current

Report on

Form 8-K

filed January

25, 2013)

Third

Amendment

to Second

Amended and

Restated

**Bylaws** 

(incorporated

3.11 by reference

to Exhibit 3.1

to our Current

Report on

Form 8-K

filed

December 18,

2015)

Form of

Common

Stock

Certificate

(incorporated

by reference

to Exhibit 4.1

4.1 to our

Registration

Statement on

Form SB-2

filed January

23, 2006

(Reg. No.

333-131216))

4.2 Certificate of

Designations

of Series A

Preferred

Stock

(incorporated

by reference

to Exhibit 4.2

to our

Registration

Statement on

Form S-3

filed July 1,

# Edgar Filing: Ascent Solar Technologies, Inc. - Form S-1

2013 (Reg.

No.

333-189739))

Form of

Warrant

(incorporated

by reference

to Exhibit 4.3

to our

4.3 Registration

Statement on

Form S-3

filed July 1,

2013 (Reg.

No.

333-189739,

as amended))

Certificate of

Designations

of Series B-1

and B-2

Preferred

Stock

4.4 (incorporated

by reference

to Exhibit 3.1

to our Current

Report on

Form 8-K

filed October

30, 2013)

II - 5

Certificate

of

Designations

of

Series

C

Preferred

Stock

(incorporated

by

reference

tΩ

4.5 Exhibit

3.1

to

our

Current

Report

on

Form

8-K

filed

April

2,

2014)

# 4.6 Certificate

of

Designations,

Preferences

and

Rights

of

the

Series

D

Convertible

Preferred

Stock

(incorporated

by

reference

to

Exhibit

3.1

to

our

Current

Report

on

Form

8-K

filed

on

November

17,

2014)

Form

of

Warrant

to

Purchase

Common

Stock

(incorporated

bv

reference

to

Exhibit

4.7 10.3

to

our

Current

Report

on

Form

8-K

filed

on

November

17,

2014)

4.8 Certificate

of

Designations,

Preferences

and

Rights

of

the

Series

D-1

Convertible

Preferred

Stock

(incorporated

by

reference

to

Exhibit

3.1

to

our

Current

Report

on

Form

8-K

filed

on

February

20,

2015)

Form

of

Warrant

(incorporated

by

reference

to

Exhibit

10.2

4.9 to

our

Current

Report

on

Form

8-K

filed

February

20,

2015)

# 4.10 Certificate

of

Designations,

Preferences

and

Rights

of

the

Series

Е

Convertible

Preferred

Stock

(incorporated

by

reference

to

Exhibit

3.1

to

our

Current

Report

on

Form

8-K

filed

on

November

10,

2015)

Certificate of

Designations,

Preferences

and Rights of

the Series F

Convertible

Preferred

Stock

4.11 (incorporated

by reference

to Exhibit 3.1

to our Current

Report on

Form 8-K

filed on

January 20,

2016)

Certificate of

Designations,

Preferences

and Rights of

the Series G

Convertible

Preferred

Stock

4.12 (incorporated

by reference

to Exhibit 2 of

Exhibit 10.5

to our Current

Report on

Form 8-K

filed on May

2, 2016)

4.13 Certificate of

Designations,

Preferences

and Rights of

the Series H

Convertible

Preferred

Stock

(incorporated

by reference

to Exhibit 3.1

to our Current

Report on

Form 8-K

filed on June

9, 2016)

Certificate of

Designations,

Preferences

and Rights of

the Series I

Convertible

Preferred

4.14 Stock

(incorporated

by reference

to Exhibit 3.1

to our Current

Report on

Form 8-K

filed on July

28, 2016)

Opinion

of

5.1 Faegre

Baker

Daniels

LLP\*

10.1 Seventh

Amended

and

Restated

2005

Stock

Option

Plan

(incorporated

by

reference

to

Annex

В

of

our

definitive

proxy

statement

dated

April

22,

2016)

Seventh

Amended

and

Restated

2008

Restricted

Stock

Plan

Stock

Option

Plan

(incorporated

10.2 by

reference

to

Annex

A

of

our

definitive

proxy

statement

dated

April

22,

2016)

10.3 Securities

Purchase

Agreement,

dated

January

17,

2006,

between

the

Company

and

ITN

Energy

Systems,

Inc.

(incorporated

by

reference

to

Exhibit

10.1

to

our

Registration

Statement

on

Form

SB-2

filed

on

January

23,

2006

(Reg.

No.

333-131216))

# 10.4 Invention

and

Trade

Secret

Assignment

Agreement,

dated

January

17,

2006,

between

the

Company

and

ITN

Energy

Systems,

Inc.

(incorporated

by

reference

to

Exhibit

10.2

to

our

Registration

Statement

on

Form

SB-2

filed on

January

23,

# Edgar Filing: Ascent Solar Technologies, Inc. - Form S-1

2006 (Reg. No. 333-131216))

II - 6

Patent

Application

Assignment

Agreement,

dated January

17, 2006,

between the

Company and

ITN Energy

Systems, Inc.

10.5 (incorporated

by reference to

Exhibit 10.3 to

our

Registration

Statement on

Form SB-2

filed on

January 23,

2006 (Reg.

No.

333-131216))

License

Agreement,

dated January

17, 2006,

between the

Company and

ITN Energy

Systems, Inc.

(incorporated

by reference to

Exhibit 10.4 to

our

Registration

Statement on

Form SB-2

filed on

January 23,

2006 (Reg.

No.

333-131216))

10.7 Service Center

Agreement,

dated January

17, 2006,

between the

Company and

ITN Energy

Systems, Inc., as amended

(incorporated

by reference to

Exhibit 10.6 to

our

Registration

Statement on

Form SB-2

filed on

January 23,

2006 (Reg.

No.

333-131216))

Administrative

Services

Agreement,

dated January

17, 2006,

between the

Company and

ITN Energy

Systems, Inc.,

as amended

(incorporated

by reference to

Exhibit 10.8 to

our

10.8

Registration

Statement on

Form SB-2

filed on

January 23,

2006 (Reg.

No.

333-131216))

10.9 Letter

Agreement,

dated

November 23,

2005, among

the Company,

ITN Energy

Systems, Inc.

and the

University of

Delaware

(incorporated

by reference to

Exhibit 10.16

to our

Registration

Statement on

Form SB-2/A

filed on May

26, 2006 (Reg.

No.

333-131216))

License

Agreement,

dated

November 21,

2006, between

the Company

and UD

Technology

10.10 Corporation

(incorporated

by reference to

Exhibit 10.1 to

our Current

Report on

Form 8-K

filed on

November 29,

2006)

Novation

Agreement,

dated January

1, 2007,

among the

Company,

ITN Energy

Systems, Inc.

and the United

States

# 10.11 Government

(incorporated

by reference to

Exhibit 10.23

to our Annual

Report on

Form 10-KSB

for the year

ended

December 31,

2006)

# 10.12 Construction

Loan

Agreement,

dated

February 8,

2008, between

the Company

and the

Colorado

Housing and

Finance

Authority

(incorporated

by reference to

Exhibit 10.37

to our Annual

Report on

Form 10-K for

the year ended

December 31,

2007)

**Promissory** 

Note, dated

February 8,

2008, issued

to the

Colorado

Housing and

Finance

# 10.13 Authority

(incorporated

by reference to

Exhibit 10.38

to our Annual

Report on

Form 10-K for

the year ended

December 31,

2007)

# 10.14 Loan

Modification

Agreement,

dated January

29, 2009,

between the

Company and

the Colorado

Housing and

Finance

Authority

(incorporated

by reference to

Exhibit 10.52

to our Annual

Report on

Form 10-K for

the year ended

December 31,

2008)

Cooperation

Agreement,

dated

December 18,

2007, between

the Company

and Norsk

Hydro

Produksjon

# 10.15 AS

(incorporated

by reference to

Exhibit 10.1 to

our Current

Report on

Form 8-K

filed on

December 19,

2007)

Equipment

Purchase

Agreement,

dated January

7, 2010,

between the

Company and

ITN Energy

10.16 Systems, Inc. (incorporated

by reference to

Exhibit 10.46

to our Annual

Report on

Form 10-K for

the year ended

December 31,

2009)

# 10.17 Securities

Purchase

Agreement

dated as of

August 12,

2011 between

**TFG Radiant** 

Investment

Group Ltd.

and the

Company

# Edgar Filing: Ascent Solar Technologies, Inc. - Form S-1

(incorporated

by reference to

Exhibit 99.1 to

our Current

Report on

Form 8-K

filed on

August 15,

2011)

Stockholders

Agreement

dated as of

August 12,

2011 between

**TFG Radiant** 

Investment

Group Ltd.

and the

10.18 Company

(incorporated

by reference to

Exhibit 99.2 to

our Current

Report on

Form 8-K

filed on

August 15,

2011)

II - 7

Registration

Rights

Agreement

dated as of

August 12,

2011 between

**TFG Radiant** 

Investment

Group Ltd.

and the

10.19 Company

(incorporated

by reference

to Exhibit

99.3 to our

Current

Report on

Form 8-K

filed on

August 15,

2011)

Joint

Development

Agreement

dated as of

August 12,

2011 between

**TFG Radiant** 

New-Energy

Group Ltd.

and the

10.20 Company

(incorporated

by reference

to Exhibit

10.5 to our

Quarterly

Report on

Form 10-Q

for the quarter

ended

September 30,

2011)

10.21 Amended and

Restated

Stockholders

Agreement

dated as of

December 30,

2011 between

**TFG Radiant** 

Investment

Group Ltd.

and the

Company

(incorporated

by reference

to Exhibit

99.2 to our

Current

Report on

Form 8-K

filed on

January 5,

2012)

Amended and

Restated

Registration

Rights

Agreement

dated as of

December 30,

2011 between

**TFG Radiant** 

Investment

Group Ltd.

10.22 and the

Company

(incorporated

by reference

to Exhibit

99.3 to our

Current

Report on

Form 8-K

filed on

January 5,

2012)

10.23 Services

Agreement

dated

December 10,

2012 between

the Company

and TFG

Radiant

(incorporated

by reference

to Exhibit

99.1 to our

Current

Report on

Form 8-K

filed

December 14,

2012)

Stock

Purchase

Agreement,

dated April

26, 2013,

between the

Company and

Foo Joo

10.24 Loong (filed

as Exhibit

10.1 to our

Registration

Statement on

Form S-3

filed July 1,

2013 (Reg.

No.

333-189739))

Securities

Purchase

Agreement,

dated June 17,

2013, between

the Company

and Seng Wei

Seow (filed as

10.25 Exhibit 10.2

to our

Registration

Statement on

Form S-3

filed July 1,

2013 (Reg.

No.

333-189739))

10.26 Registration

Rights

Agreement

dated June 17,

2013 between

the Company

and Seng Wei

Seow (filed as

exhibit 10.2 to

our Current

Report on

Form 8-K

filed June 21,

2013)

First

Amendment

dated August

7, 2013 to

Securities

Purchase

Agreement

and

Registration

Rights

10.27 Agreement

(incorporated

by reference

to Exhibit

10.1 to our

Current

Report on

Form 8-K

filed on

August 7,

2013)

Second

Amendment

dated August

13, 2013 to

Securities

D 1

Purchase

Agreement

(incorporated

10.28 by reference

to Exhibit

10.1 to our

Current

Report on

Form 8-K

filed on

August 15,

2013)

10.29 Framework

Agreement,

dated July 2,

2013, between

the Company

and the

Government

of the

Municipal

City of Suqian

in Jiangsu

Province,

China

(incorporated

by reference

to Exhibit

10.5 to our

Registration

Statement on

Form S-3

filed August

29, 2013

(Reg. No.

333-190701),

as amended)

Stock

Purchase

Agreement,

dated October

28, 2013

between the

Company and

Ironridge

Technology

Co., a division

# 10.30 of Ironridge Global IV,

Ltd.

(incorporated

by reference

to Exhibit

10.1 to our

Current Report on

Form 8-K

filed October

30, 2013)

# 10.31 Industrial

Project Entry

and Joint

Venture

Construction

Contract by

and between

the Registrant

and Sugian

Economic

Development

Company,

Ltd. dated

# Edgar Filing: Ascent Solar Technologies, Inc. - Form S-1

December 28, 2013 (incorporated by reference to Exhibit 10.33 to our Annual Report on Form 10-K filed March 28, 2014) Securities Purchase Agreement, dated April 1, 2014, between the Company 10.32 and Ironridge Global IV, Ltd. (filed as Exhibit 10.1 to our Current Report on Form 8-K April 2, 2014) Registration Rights Agreement dated April 1, 2014 between the Company and Ironridge 10.33 Global IV, Ltd. (filed as exhibit 10.2 to our Current Report on Form 8-K filed April 2,

II - 8

2014)

# **Table of Contents**

Executive

**Employment** 

Agreement,

dated April 4,

2014,

between the

Company and

10.34 Victor Lee

(filed as

Exhibit 10.1

to our Current

Report on

Form 8-K

filed on April

9, 2014)

Settlement

Agreement

and Release

dated April

15, 2014

between the

Company and

10.35 Jefferies LLC

(filed as

Exhibit 10.1

to our Current

Report on

Form 8-K

filed on April

22, 2014)

Stock

Purchase

Agreement,

dated July 29,

2014,

between the

Company and

**SHTARD** 

Enterprise

10.36 Ltd.

(incorporated

by reference

to Exhibit

10.1 to our

Current

Report on

Form 8-K

July 31,

2014)

Securities

Purchase

Agreement,

dated August

29, 2014,

among the

Company,

Seng Wei

Seow and

**TFG Radiant** 

Investment

Group Ltd.

(incorporated

by reference

to Exhibit

10.1 to our

Current

Report on

Form 8-K

filed

September 4,

2014)

Securities

Purchase

Agreement,

dated

November 14,

2014,

between the

Company and

the Investor

10.38 named therein

(incorporated

by reference

to Exhibit

10.1 to our

Current

Report on

Form 8-K

filed

November 17,

2014)

10.39 Form of

Senior

Secured

Convertible

Note

(incorporated

by reference

to Exhibit

10.2 to our

Current

Report on

Form 8-K

filed

November 17,

2014)

Form of

Registration

Rights

Agreement

between the

Company and

the Investor

named therein

10.40 (incorporated by reference

to Exhibit

10.4 to our

Current

Report on

Form 8-K

filed

November 17,

2014)

Form of

Security and

Pledge

Agreement by

the Company

in favor of the

collateral

agent named

therein

10.41 (incorporated

by reference

to Exhibit

10.5 to our

Current

Report on

Form 8-K

filed

November 17,

2014)

10.42 Securities

Purchase

Agreement,

dated

February 19,

2015,

between the

Company and

the Investor

named therein

(incorporated

by reference

to Exhibit

10.1 to our

Current

Report on

Form 8-K

filed February

20, 2015)

Securities

Purchase

Agreement,

dated April 6,

2015,

between the

Company and

**TFG Radiant** 

Investment

10.43 Group Ltd.

(incorporated

by reference

to Exhibit

10.1 to our

Current

Report on

Form 8-K

filed April 7,

2015)

Securities

Purchase

Agreement,

dated June

10, 2015,

between the

Company and

**TFG Radiant** 

Investment

10.44 Group Ltd.

(incorporated

by reference

to Exhibit

10.1 to our

Current

Report on

Form 8-K

filed June 15,

2015)

10.45 Amendment

and Exchange

Agreement,

dated July 22,

2015

(incorporated

by reference

to Exhibit

10.1 to our

Current

Report on

Form 8-K

filed July 23,

2015)

Right to

Receive

Common

Stock dated

July 22, 2015

(incorporated

10.46 by reference to Exhibit

10.2 to our

Current

Report on

Form 8-K

filed July 23,

2015)

Confidential

Settlement

Agreement

and General

Release,

dated as of

May 13,

2015,

between the

Company and

10.47 William M.

Gregorak

(incorporated

by reference

to Exhibit

10.5 to our

Quarterly

Report on

Form 10-Q

filed August

14, 2015)

10.48 Cancellation

and Waiver

Agreement

dated

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September 4, 2015 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed September 8, 2015)

# Table of Contents

Note Purchase Agreement dated September 4, 2015 (incorporated reference to 10.49 Exhibit 10.2 to our Current Report on Form 8-K filed September 8, 2015) Security Agreement dated September 4, 2015 (incorporated by reference Exhibit 10.50 10.3 to our Current Report on Form 8-K filed September 8, 2015) 10.51 Secured Convertible

Promissory Note for \$1,000,000 dated September 4, 2015 (incorporated reference Exhibit 10.4 to our Current Report on Form 8-K filed September 2015) 10.52 Secured Convertible Promissory Note for \$500,000 dated September 4, 2015 (incorporated by reference to Exhibit 10.5

to
our
Current
Report
on
Form
8-K
filed
September

8,

2015)

Joinder

to

Note

Purchase

Agreement

dated

September

28,

2015

(incorporated

reference

10.53 to Exhibit

10.1

to

our

Current

Report

on

Form

8-K

filed

September

28,

2015)

10.54 Secured

Convertible

Promissory

Note

for

\$500,000

dated

September

28,

2015

(incorporated

by

reference

to

Exhibit

10.2

to

our

Current

Report

on

Form

8-K

filed

No. 1 dated October 8, 2015 to Cancellation and Waiver Agreement dated September 4, 2015 10.55 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed October 9, 2015) 10.56 Series Ε Securities Purchase Agreement, dated November 4, 2015, between the Company and Redwood Management,

September

28, 2015) Amendment LLC

Ltd

(incorporated

by

reference

to

Exhibit

10.1

to

our

Current

Report

on

Form

8-K

filed

November

10,

2015)

10.57 Series

Ε

Registration

Rights

Agreement,

dated

November

4,

2015,

between

the

Company

and

Redwood

Management,

LLC

(incorporated

by

reference

to

Exhibit

10.2

to

our

Current

Report

on

Form

8-K

filed

November

10,

2015)

Equity

Line

Purchase

Agreement

dated

November

10,

2015

(incorporated

by

reference

to

10.58 Exhibit

10.3

to

our

Current

Report

on

Form

8-K

filed

November

10,

2015)

10.59 Equity

Line

Registration

Rights

Agreement

dated

November

10,

2015

(incorporated

by

reference

to

Exhibit

10.4

to

our

Current

Report

on

Form

8-K

filed

November

10,

2015)

Amendment

No.

2

dated

November

22,

2015

to

Cancellation

and

Waiver

Agreement

dated

September

4,

2015

10.60 (incorporated

by

reference

to

Exhibit

10.1

to

our

Current

Report

on

Form

8-K

filed

November

23,

2015)

10.61 Series F

Securities

Purchase

Agreement,

dated January

20, 2016,

between the

Company and

Redwood

Management,

LLC Ltd

(incorporated

by reference

to Exhibit

10.1 to our

Current

Report on

Form 8-K filed January 20, 2016) Exchange Agreement, dated April 29, 2016 (incorporated by reference to Exhibit 10.62 10.1 to our Current Report on Form 8-K filed May 2, 2016) Exchange Agreement, dated April 29, 2016 (incorporated by reference Exhibit 10.63 10.2 to our Current Report on Form 8-K filed May 2, 2016) 10.64 Right

to

# Edgar Filing: Ascent Solar Technologies, Inc. - Form S-1

Receive Common Stock

dated April

29,

2016 (incorporated

by

reference

to

Exhibit

10.3

to

our

Current

Report

on

Form

8-K

filed

May

2,

2016)

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# **Table of Contents**

Right

to

Receive

Common

Stock

dated

April

29,

2016

(incorporated

by

reference

10.65 to Exhibit

10.4

to

our

Current

Report

on

Form

8-K

filed

May

2,

2016)

Series G

Securities

Purchase

Agreement,

dated April

29, 2016

(incorporated

10.66 by reference

to Exhibit

10.5 to our

Current

Report on

Form 8-K

filed May 2,

2016)

10.67 Series G

Securities

Purchase

Agreement,

dated April

29, 2016

(incorporated

by reference

to Exhibit 10.6 to our Current Report on Form 8-K filed May 2, 2016) Series Η Securities Purchase Agreement, dated June 9, 2016 (incorporated by reference 10.68 to Exhibit 10.1 to our Current Report on Form 8-K filed June 9, 2016) 10.69 Series Η Registration Rights Agreement, dated June 9, 2016 (incorporated by reference to Exhibit 10.2

> to our Current

Report on Form 8-K filed June 9, 2016) Secured Note Securities Purchase Agreement, dated July 13, 2016 (incorporated reference 10.70 to Exhibit 10.9 to our Quarterly Report on Form 10-Q filed August 15, 2016) 10.71 Security Agreement, dated July 13, 2016 (incorporated by reference Exhibit 10.11 to our Quarterly Report

on

Form 10-Q filed August 15, 2016) Secured Note Securities Purchase Agreement, dated July 13, 2016 (incorporated by reference 10.72 to Exhibit 10.9 to our Quarterly Report on Form 10-Q filed August 15, 2016) 10.73 Exchange Agreement, dated July 13, 2016 (incorporated reference to Exhibit 10.12 to our Quarterly Report

on Form 10-Q

filed August 15, 2016) Series I Securities Purchase Agreement, dated July 26, 2016 (incorporated reference 10.74 to Exhibit 10.14 to our Quarterly Report on Form 10-Q filed August 15, 2016) 10.75 Note Purchase Agreement, dated August 29, 2016 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K

filed

September 1, 2016) Note, dated August 29, 2016 (incorporated by reference Exhibit 10.76 to our Current Report on Form 8-K filed September 1, 2016) Consent of Hein 23.1 & Associates LLP\* Consent of Faegre Baker Daniels 23.2 LLP (included in Exhibit 5.1)\* Power of Attorney (included 24.1 on the signature pages

hereof)\*

\* Filed herewith.

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#### Item 17. Undertakings.

- 1. The undersigned registrant hereby undertakes to file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:
- (i) To include any prospectus required by Section 10(a)(3) of the Securities Act of 1933;

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

  The undersigned registrant hereby undertakes that, for the purpose of determining any liability under the Securities

  Act of 1933, as amended, each such post-effective amendment shall be deemed to be a new registration statement
- 2. Act of 1933, as amended, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.
- 3. The undersigned registrant hereby undertakes to remove from registration by means of a post-effective amendment any of the securities being registered that remain unsold at the termination of the offering.
- 4. The undersigned registrant hereby undertakes that, for the purposes of determining liability to any purchaser: If the registrant is subject to Rule 430C, each prospectus filed pursuant to Rule 424(b) as part of a registration statement relating to an offering, other than registration statements relying on Rule 430B or other than prospectuses filed in reliance on Rule 430A, shall be deemed to be part of and included in the registration statement as of the date it is first used after effectiveness. Provided, however, that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of contract of sale prior to such first use, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such date of first use.
- 5. Insofar as indemnification for liabilities arising under the Securities Act of 1933, as amended, may be permitted to directors, officers and controlling persons of the undersigned registrant according the foregoing provisions, or otherwise, the undersigned registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the Registrant of expenses incurred or paid by a director, officer or controlling person of the registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act of 1933, as amended, and will be governed by the final adjudication of such issue.

# Edgar Filing: Ascent Solar Technologies, Inc. - Form S-1

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#### **SIGNATURES**

Pursuant to the requirements of the Securities Act of 1933, the registrant has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Thornton, State of Colorado on September 9, 2016.

Ascent Solar Technologies, Inc.

By:/s/ Victor Lee Lee Kong Hian (aka Victor Lee) President and Chief Executive Officer

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#### POWER OF ATTORNEY

We, the undersigned directors and officers of Ascent Solar Technologies, Inc., do hereby constitute and appoint Victor Lee or Jess Edens, or any of them, our true and lawful attorneys and agents, to do any and all acts and things in our name and behalf in our capacities as directors and officers and to execute any and all instruments for us and in our names in the capacities indicated below, which said attorneys and agents, or either of them, may deem necessary or advisable to enable said corporation to comply with the Securities Act of 1933, as amended, and any rules, regulations, and requirements of the Securities and Exchange Commission, in connection with this registration statement, including specifically, but without limitation, power and authority to sign for us or any of us in our names and in the capacities indicated below, any and all amendments (including post-effective amendments) to this registration statement, or any related registration statement that is to be effective upon filing pursuant to Rule 462(b) under the Securities Act of 1933, as amended; and we do hereby ratify and confirm all that the said attorneys and agents, or either of them, shall do or cause to be done by virtue hereof.

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

Signature	Title	Date
/s/ Victor Lee Lee Kong Hian (aka Victor Lee)	President and Chief Executive Officer, Director, and acting Principal Financial Officer (Principal Executive Officer, Principal Financial Officer)	September 9, 2016
/s/ Amit Kumar Amit Kumar, Ph.D.	Chairman of the Board of Directors	September 9, 2016
/s/ Kim J. Huntley Kim J. Huntley	Director	September 9, 2016
G. Thomas Marsh	Director	
Xu Biao (aka Winston Xu)	Director	

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# **Table of Contents**

#### **EXHIBIT INDEX**

Exhibit

Description

Number

Amended and

Restated

Certificate of

Incorporation

(incorporated

by reference to

Exhibit 3.2 to

3.1 our

Registration

Statement on

Form SB-2

filed January

23, 2006 (Reg.

No.

333-131216))

Certificate of

Amendment to

the Amended

and Restated

Certificate of

Incorporation

(incorporated

by reference to

Exhibit 3.1 to

our Quarterly

Report on

Form 10-Q for

the quarter

ended

September 30,

2011)

Certificate of

Amendment to

the Amended

and Restated

Certificate of

Incorporation

3.3 (incorporated

by reference to

Exhibit 3.1 to our Current

Report on

Form 8-K filed

February 11,

2014)

Certificate of Amendment to the Amended and Restated Certificate of Incorporation (incorporated 3.4 by reference to Exhibit 3.1 to our Current Report on Form 8-K filed September 2, 2014) Certificate of Amendment to the Amended and Restated Certificate of Incorporation (incorporated 3.5 by reference to Exhibit 3.1 to our Current Report on Form 8-K dated October 28, 2014) Certificate of Amendment to the Amended and Restated Certificate of Incorporation (incorporated 3.6 by reference to Exhibit 3.1 to our Current Report on Form 8-K dated December 23, 2014) 3.7 Certificate of Amendment to the Amended and Restated Certificate of Incorporation (incorporated

by reference to

Exhibit 3.1 to

our Current

Report on

Form 8-K

dated June 2,

2016)

Second

Amended and

Restated

**Bylaws** 

(incorporated

by reference to

Exhibit 3.2 to

our Current

Report on

Form 8-K filed

on February

17, 2009)

First

Amendment to

Second

Amended and

Restated

**Bylaws** 

3.9

(incorporated

by reference to

E 1:11:22

Exhibit 3.3 to

our Quarterly

Report on

Form 10-Q for

the quarter

ended

September 30,

2009)

Second

Amendment to

Second

Amended and

Restated

**Bylaws** 

3.10 (incorporated

by reference to

Exhibit 3.1 to

our Current

Report on

Form 8-K filed

January 25,

2013)

3.11 Third

Amendment to

Second

Amended and

Restated

**Bylaws** 

(incorporated

by reference to

Exhibit 3.1 to

our Current

Report on

Form 8-K filed

December 18,

2015)

Form of

Common

Stock

Certificate

(incorporated

by reference to

Exhibit 4.1 to

# 4.1 our

Registration

Statement on

Form SB-2

filed January

23, 2006 (Reg.

No.

333-131216))

Certificate of

Designations

of Series A

Preferred

Stock

(incorporated

by reference to

# 4.2 Exhibit 4.2 to

our

Registration

Statement on

Form S-3 filed

July 1, 2013

(Reg. No.

333-189739))

#### 4.3 Form of

Warrant

(incorporated

by reference to

Exhibit 4.3 to

our

Registration

Statement on

Form S-3 filed

July 1, 2013

# Edgar Filing: Ascent Solar Technologies, Inc. - Form S-1

(Reg. No. 333-189739, as amended)) Certificate of Designations of Series B-1 and B-2 Preferred Stock (incorporated 4.4 by reference to Exhibit 3.1 to our Current Report on Form 8-K filed October 30, 2013)

# **Table of Contents**

Certificate of

Designations

of Series C

Preferred

Stock

(incorporated

4.5 by reference

to Exhibit 3.1

to our Current

Report on

Form 8-K

filed April 2,

2014)

Certificate of

Designations,

Preferences

and Rights of

the Series D

Convertible

Preferred

Stock

4.6 (incorporated

by reference

to Exhibit 3.1

to our Current

Report on

Form 8-K

filed on

November 17,

2014)

Form of

Warrant to

Purchase

Common

Stock

(incorporated

by reference

4.7 to Exhibit

10.3 to our

Current

Report on

Form 8-K

filed on

November 17,

2014)

4.8 Certificate of

Designations,

Preferences

and Rights of

the Series D-1

Convertible

Preferred

Stock

(incorporated

by reference

to Exhibit 3.1

to our Current

Report on

Form 8-K

filed on

February 20,

2015)

Form of

Warrant

(incorporated

by reference

to Exhibit

4.9 10.2 to our

Current

Report on

Form 8-K

filed February

20, 2015)

Certificate of

Designations,

Preferences

and Rights of

the Series E

Convertible

Preferred

Stock

4.10 (incorporated

by reference

to Exhibit 3.1

to our Current

Report on

Form 8-K

filed on

November 10,

2015)

4.11 Certificate of

Designations,

Preferences

and Rights of

the Series F

Convertible

Preferred

Stock

(incorporated

by reference

to Exhibit 3.1

to our Current

Report on

Form 8-K

filed on

January 20,

2016)

Certificate of

Designations,

Preferences

and Rights of

the Series G

Convertible

Preferred

Stock

4.12 (incorporated

by reference

to Exhibit 2 of

Exhibit 10.5

to our Current

Report on

Form 8-K

filed on May

2, 2016)

Certificate of

Designations,

Preferences

and Rights of

the Series H

Convertible

Preferred

4.13 Stock

4.13 (incorporated

by reference

to Exhibit 3.1

to our Current

Report on

Form 8-K

filed on June

9, 2016)

4.14 Certificate of

Designations,

Preferences

and Rights of

the Series I

Convertible Preferred

Stock

*(*:

(incorporated

by reference

to Exhibit 3.1

to our Current

Report on

Form 8-K

filed on July

28, 2016)

Opinion of

5.1 Faegre Baker

Daniels LLP\*

Seventh

Amended and

Restated 2005

**Stock Option** 

Plan

(incorporated

10.1 by reference

to Annex B of

our definitive

proxy

statement

dated April

22, 2016)

Seventh

Amended and

Restated 2008

Restricted

Stock Plan

Stock Option

Plan

10.2 (incorporated

by reference

to Annex A of

our definitive

proxy

statement

dated April

22, 2016)

10.3 Securities

Purchase

Agreement,

dated January

17, 2006,

between the

Company and

ITN Energy

Systems, Inc.

(incorporated

by reference

to Exhibit

10.1 to our

Registration

Statement on

## Edgar Filing: Ascent Solar Technologies, Inc. - Form S-1

Form SB-2

filed on

January 23,

2006 (Reg.

No.

333-131216))

Invention and

Trade Secret

Assignment

Agreement,

dated January

17, 2006,

between the

Company and

ITN Energy

Systems, Inc.

(incorporated

by reference

to Exhibit

10.2 to our

Registration

Statement on

Form SB-2

filed on

January 23,

2006 (Reg.

No.

333-131216))

### **Table of Contents**

Patent

Application

Assignment

Agreement,

dated January

17, 2006,

between the

Company and

ITN Energy

Systems, Inc.

(incorporated

by reference to

Exhibit 10.3 to

our

Registration

Statement on

Form SB-2

filed on

January 23,

2006 (Reg.

No.

333-131216))

License

Agreement,

dated January

17, 2006,

between the

Company and

ITN Energy

Systems, Inc.

(incorporated

by reference to

Exhibit 10.4 to

our

Registration

Statement on

Form SB-2

filed on

January 23,

2006 (Reg.

No.

333-131216))

10.7 Service Center

Agreement,

dated January

17, 2006,

between the

Company and

ITN Energy

Systems, Inc., as amended

(incorporated

by reference to

Exhibit 10.6 to

our

Registration

Statement on

Form SB-2

filed on

January 23,

2006 (Reg.

No.

333-131216))

Administrative

Services

Agreement,

dated January

17, 2006,

between the

Company and

ITN Energy

Systems, Inc.,

as amended

(incorporated

by reference to

Exhibit 10.8 to

our

10.8

Registration

Statement on

Form SB-2

filed on

January 23,

2006 (Reg.

No.

333-131216))

10.9 Letter

Agreement,

dated

November 23,

2005, among

the Company,

ITN Energy

Systems, Inc.

and the

University of

Delaware

(incorporated

by reference to

Exhibit 10.16

to our

Registration

Statement on

Form SB-2/A

filed on May

26, 2006 (Reg.

No.

333-131216))

License

Agreement,

dated

November 21,

2006, between

the Company

and UD

Technology

10.10 Corporation

(incorporated

by reference to

Exhibit 10.1 to

our Current

Report on

Form 8-K

filed on

November 29,

2006)

Novation

Agreement,

dated January

1, 2007,

among the

Company,

ITN Energy

Systems, Inc.

and the United

States

#### 10.11 Government

(incorporated

by reference to

Exhibit 10.23

to our Annual

Report on

Form 10-KSB

for the year

ended

December 31,

2006)

### 10.12 Construction

Loan

Agreement,

dated

February 8,

2008, between

the Company

and the

Colorado

Housing and

Finance

Authority

(incorporated

by reference to

Exhibit 10.37

to our Annual

Report on

Form 10-K for

the year ended

December 31,

2007)

**Promissory** 

Note, dated

February 8,

2008, issued

to the

Colorado

Housing and

Finance

10.13 Authority

(incorporated

by reference to

Exhibit 10.38

to our Annual

Report on

Form 10-K for

the year ended

December 31,

2007)

10.14 Loan

Modification

Agreement,

dated January

29, 2009,

between the

Company and

the Colorado

Housing and

Finance

Authority

(incorporated

by reference to

Exhibit 10.52

to our Annual

Report on

Form 10-K for

the year ended

December 31,

2008)

Cooperation

Agreement,

dated

December 18,

2007, between

the Company

and Norsk

Hydro

Produksjon

#### 10.15 AS

(incorporated

by reference to

Exhibit 10.1 to

our Current

Report on

Form 8-K

filed on

December 19,

2007)

Equipment

Purchase

Agreement,

dated January

7, 2010,

between the

Company and

ITN Energy

10.16 Systems, Inc. (incorporated

by reference to

Exhibit 10.46 to our Annual

Report on

Form 10-K for

the year ended

December 31,

2009)

#### 10.17 Securities

Purchase

Agreement

dated as of

August 12,

2011 between

**TFG Radiant** 

Investment

Group Ltd.

and the

Company

## Edgar Filing: Ascent Solar Technologies, Inc. - Form S-1

(incorporated

by reference to

Exhibit 99.1 to

our Current

Report on

Form 8-K

filed on

August 15,

2011)

Stockholders

Agreement

dated as of

August 12,

2011 between

**TFG Radiant** 

Investment

Group Ltd.

and the

10.18 Company

(incorporated

by reference to

Exhibit 99.2 to

our Current

Report on

Form 8-K

filed on

August 15,

2011)

### **Table of Contents**

Registration

Rights

Agreement

dated as of

August 12,

2011 between

**TFG Radiant** 

Investment

Group Ltd.

and the

10.19 Company

(incorporated

by reference

to Exhibit

99.3 to our

Current

Report on

Form 8-K

filed on

August 15,

2011)

Joint

Development

Agreement

dated as of

August 12,

2011 between

**TFG Radiant** 

New-Energy

Group Ltd.

and the

10.20 Company

(incorporated

by reference

to Exhibit

10.5 to our

Quarterly

Report on

Form 10-Q

for the quarter

ended

September 30,

2011)

10.21 Amended and

Restated

Stockholders

Agreement

dated as of

December 30,

- 2011 between
- **TFG Radiant**
- Investment
- Group Ltd.
- and the
- Company
- (incorporated
- by reference
- to Exhibit
- 99.2 to our
- Current
- Report on
- Form 8-K
- filed on
- January 5,
- 2012)
- Amended and
- Restated
- Registration
- Rights
- Agreement
- dated as of
- December 30,
- 2011 between
- **TFG Radiant**
- Investment
- Group Ltd.
- 10.22 and the
  - Company
  - (incorporated
  - by reference
  - to Exhibit
  - 99.3 to our
  - Current
  - Report on
  - Form 8-K
  - filed on
  - January 5,
  - 2012)
- 10.23 Services
  - Agreement
  - dated
  - December 10,
  - 2012 between
  - the Company
  - and TFG
  - Radiant
  - (incorporated
  - by reference
  - to Exhibit
  - 99.1 to our

Current

Report on

Form 8-K

filed

December 14,

2012)

Stock

Purchase

Agreement,

dated April

26, 2013,

between the

Company and

Foo Joo

10.24 Loong (filed

as Exhibit

10.1 to our

Registration

Statement on

Form S-3

filed July 1,

2013 (Reg.

No.

333-189739))

Securities

Purchase

Agreement,

dated June 17,

2013, between

the Company

and Seng Wei

Seow (filed as

10.25 Exhibit 10.2

to our

Registration

Statement on

Form S-3

filed July 1,

2013 (Reg.

No.

333-189739))

10.26 Registration

Rights

Agreement

dated June 17,

2013 between

the Company

and Seng Wei

Seow (filed as

exhibit 10.2 to

our Current

Report on

Form 8-K

filed June 21,

2013)

First

Amendment

dated August

7, 2013 to

Securities

Purchase

Agreement

and

Registration

Rights

10.27 Agreement

(incorporated

by reference

to Exhibit

10.1 to our

Current

Report on

Form 8-K

filed on

August 7,

2013)

Second

Amendment

dated August

13, 2013 to

Securities

Purchase

Agreement

(incorporated

10.28 by reference

to Exhibit

10.1 to our

Current

Report on

Form 8-K

filed on

August 15,

2013)

10.29 Framework

Agreement,

dated July 2,

2013, between

the Company

and the

Government

of the

Municipal

City of Suqian

in Jiangsu

Province,

China

(incorporated

by reference

to Exhibit

10.5 to our

Registration

Statement on

Form S-3

filed August

29, 2013

(Reg. No.

333-190701),

as amended)

Stock

Purchase

Agreement,

dated October

28, 2013

between the

Company and

Ironridge

Technology

Co., a division

10.30 of Ironridge Global IV,

Ltd.

(incorporated

by reference

to Exhibit

10.1 to our

Current

Report on

Form 8-K

filed October

30, 2013)

10.31 Industrial

Project Entry

and Joint

Venture

Construction

Contract by

and between

the Registrant

and Sugian

Economic

Development

Company,

Ltd. dated

December 28,

2013

(incorporated

by reference

to Exhibit

10.33 to our

Annual

Report on

Form 10-K

filed March

28, 2014)

Securities

Purchase

Agreement,

dated April 1,

2014, between

the Company

10.32 and Ironridge Global IV,

Ltd. (filed as

Exhibit 10.1

to our Current

Report on

Form 8-K

April 2, 2014)

Registration

Rights

Agreement

dated April 1,

2014 between

the Company

and Ironridge

10.33 Global IV,

Ltd. (filed as

exhibit 10.2 to

our Current

Report on

Form 8-K

filed April 2,

2014)

### **Table of Contents**

Executive

**Employment** 

Agreement,

dated April 4,

2014,

between the

Company and

10.34 Victor Lee

(filed as

Exhibit 10.1

to our Current

Report on

Form 8-K

filed on April

9, 2014)

Settlement

Agreement

and Release

dated April

15, 2014

between the

Company and

10.35 Jefferies LLC

(filed as

Exhibit 10.1

to our Current

Report on

Form 8-K

filed on April

22, 2014)

Stock

Purchase

Agreement,

dated July 29,

2014,

between the

Company and

**SHTARD** 

Enterprise

10.36 Ltd.

(incorporated

by reference

to Exhibit

10.1 to our

Current

Report on

Form 8-K

July 31,

2014)

Securities

Purchase

Agreement,

dated August

29, 2014,

among the

Company,

Seng Wei

Seow and

**TFG Radiant** 

Investment

Group Ltd.

(incorporated

by reference

to Exhibit

10.1 to our

Current

Report on

Form 8-K

filed

September 4,

2014)

Securities

Purchase

Agreement,

dated

November 14,

2014,

between the

Company and

the Investor

10.38 named therein

(incorporated

by reference

to Exhibit

10.1 to our

Current

Report on

Form 8-K

filed

November 17,

2014)

10.39 Form of

Senior

Secured

Convertible

Note

(incorporated

by reference

to Exhibit

10.2 to our

Current

Report on

Form 8-K

filed

November 17,

2014)

Form of

Registration

Rights

Agreement

between the

Company and

the Investor

named therein

10.40 (incorporated by reference

to Exhibit

10.4 to our

Current

Report on

Form 8-K

filed

November 17,

2014)

Form of

Security and

Pledge

Agreement by

the Company

in favor of the

collateral

agent named

therein

10.41 (incorporated

by reference

to Exhibit

10.5 to our

Current

Report on

Form 8-K

filed

November 17,

2014)

10.42 Securities

Purchase

Agreement,

dated

February 19,

2015,

between the

Company and

the Investor

named therein

(incorporated

by reference

to Exhibit

10.1 to our

Current

Report on

Form 8-K

filed February

20, 2015)

Securities

Purchase

Agreement,

dated April 6,

2015,

between the

Company and

**TFG Radiant** 

Investment

10.43 Group Ltd.

(incorporated

by reference

to Exhibit

10.1 to our

Current

Report on

Form 8-K

filed April 7,

2015)

Securities

Purchase

Agreement,

dated June

10, 2015,

between the

Company and

**TFG Radiant** 

Investment

10.44 Group Ltd.

(incorporated

by reference

to Exhibit

10.1 to our

Current

Report on

Form 8-K

filed June 15,

2015)

10.45 Amendment

and Exchange

Agreement,

dated July 22,

2015

(incorporated

by reference

to Exhibit

10.1 to our

Current

Report on

Form 8-K

filed July 23,

2015)

Right to

Receive

Common

Stock dated

July 22, 2015

(incorporated

10.46 by reference to Exhibit

10.2 to our

Current

Report on

Form 8-K

filed July 23,

2015)

Confidential

Settlement

Agreement

and General

Release,

dated as of

May 13,

2015,

between the

Company and

10.47 William M.

Gregorak

(incorporated

by reference

to Exhibit

10.5 to our

Quarterly

Report on

Form 10-Q

filed August

14, 2015)

10.48 Cancellation

and Waiver

Agreement

dated

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September 4, 2015 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed September 8, 2015)

### **Table of Contents**

Note Purchase

Agreement

dated

September 4,

2015

(incorporated

by reference

10.49 to Exhibit

10.2 to our

Current

Report on

Form 8-K

filed

September 8,

2015)

Security

Agreement

dated

September 4,

2015

(incorporated

by reference

10.50 to Exhibit

10.3 to our

Current

Report on

Form 8-K

filed

September 8,

2015)

Secured

Convertible

**Promissory** 

Note for

\$1,000,000

dated

September 4,

2015

10.51 (incorporated by reference

to Exhibit

10.4 to our

Current

Report on

Form 8-K

filed

September 8,

2015)

10.52

Secured

Convertible

Promissory

Note for

\$500,000

dated

September 4,

2015

(incorporated

by reference

to Exhibit

10.5 to our

Current

Report on

Form 8-K

filed

September 8,

2015)

Joinder to

Note Purchase

Agreement

dated

September 28,

2015

(incorporated

by reference

to Exhibit

10.1 to our

Current

Report on

Form 8-K

filed

September 28,

2015)

10.54 Secured

Convertible

**Promissory** 

Note for

\$500,000

dated

September 28,

2015

(incorporated

by reference

to Exhibit

10.2 to our

Current

Report on

Form 8-K

filed

September 28,

2015)

Amendment

No. 1 dated

October 8,

2015 to

Cancellation

and Waiver

Agreement

dated

September 4,

10.55 2015

(incorporated

by reference

to Exhibit

10.1 to our

Current

Report on

Form 8-K

filed October

9, 2015)

Series E

Securities

Purchase

Agreement,

dated

November 4,

2015,

between the

Company and

Redwood

10.56 Management, LLC Ltd

(incorporated

by reference

to Exhibit

10.1 to our

Current

Report on

Form 8-K

filed

November 10,

2015)

10.57 Series E

Registration

Rights

Agreement,

dated

November 4,

2015,

between the

Company and

Redwood

Management,

LLC

(incorporated

by reference

to Exhibit

10.2 to our

Current

Report on

Form 8-K

filed

November 10,

2015)

**Equity Line** 

Purchase

Agreement

dated

November 10,

2015

(incorporated

10.58 by reference to Exhibit

10.3 to our

Current

Report on

Form 8-K

filed

November 10,

2015)

**Equity Line** 

Registration

Rights

Agreement

dated

November 10,

2015

(incorporated

10.59 by reference

to Exhibit

10.4 to our

Current

Report on

Form 8-K

filed

November 10,

2015)

10.60 Amendment

No. 2 dated

November 22,

2015 to

Cancellation

and Waiver

Agreement

dated

September 4,

2015

(incorporated

by reference

to Exhibit

10.1 to our

Current

Report on

Form 8-K

filed

November 23,

2015)

Series F

Securities

Purchase

Agreement,

dated January

20, 2016,

between the

Company and

Redwood

10.61 Management,

LLC Ltd

(incorporated

by reference

to Exhibit

10.1 to our

Current

Report on

Form 8-K

filed January

20, 2016)

10.62 Exchange

Agreement,

dated

April

29,

2016

(incorporated

by

reference

to

Exhibit

10.1

to

our

Current

Report

on

Form

8-K

filed

May

2,

2016)

Exchange

Agreement,

dated

April

29,

2016

(incorporated

by

reference

to

Exhibit

10.63 10.2

to

our

Current

Report

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8-K

filed

May

2,

2016)

10.64 Right

to

Receive

Common

Stock

dated

April

29,

2016

(incorporated

by

reference

to

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8-K filed May 2, 2016)

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Right

to

Receive

Common

Stock

dated

April

29,

2016

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by

reference

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10.4

to

our

Current

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on

Form

8-K

filed

May

2,

2016)

Series G

Securities

Purchase

Agreement,

dated April

29, 2016

(incorporated

10.66 by reference

to Exhibit

10.5 to our

Current

Report on

Form 8-K

filed May 2,

2016)

10.67 Series G

Securities

Purchase

Agreement,

dated April

29, 2016

(incorporated

by reference

to Exhibit 10.6 to our Current Report on Form 8-K filed May 2, 2016) Series Η Securities Purchase Agreement, dated June 9, 2016 (incorporated by reference 10.68 to Exhibit 10.1 to our Current Report on Form 8-K filed June 9, 2016) 10.69 Series Η Registration Rights Agreement, dated June 9, 2016 (incorporated by reference to Exhibit 10.2

> to our Current

Report on Form 8-K filed June 9, 2016) Secured Note Securities Purchase Agreement, dated July 13, 2016 (incorporated reference 10.70 to Exhibit 10.9 to our Quarterly Report on Form 10-Q filed August 15, 2016) 10.71 Security Agreement, dated July 13, 2016 (incorporated by reference Exhibit 10.11 to our Quarterly Report on

Form 10-Q filed August 15, 2016) Secured Note Securities Purchase Agreement, dated July 13, 2016 (incorporated by reference 10.72 to Exhibit 10.9 to our Quarterly Report on Form 10-Q filed August 15, 2016) 10.73 Exchange Agreement, dated July 13, 2016 (incorporated reference to **Exhibit** 10.12 to our Quarterly Report

on Form 10-Q

filed August 15, 2016) Series I Securities Purchase Agreement, dated July 26, 2016 (incorporated reference 10.74 to Exhibit 10.14 to our Quarterly Report on Form 10-Q filed August 15, 2016) 10.75 Note Purchase Agreement, dated August 29, 2016 (incorporated by reference to Exhibit 10.1 to our Current Report on Form

> 8-K filed

```
September
      1,
      2016)
      Note,
      dated
      August
      29,
      2016
      (incorporated
      by
      reference
      Exhibit
10.76 10.2
      to
      our
      Current
      Report
      on
      Form
      8-K
      filed
      September
      1,
      2016)
      Consent of
      Hein &
23.1
      Associates
      LLP*
      Consent of
      Faegre Baker
23.2 Daniels LLP
      (included in
      Exhibit 5.1)*
      Power of
      Attorney
```

pages hereof)\*

24.1

(included on

the signature

<sup>\*</sup> Filed herewith.