

Ascent Solar Technologies, Inc.  
Form 10-Q  
November 13, 2015  
Table of Contents

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

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FORM 10-Q

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(Mark One)

QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT  
OF 1934

For the quarterly period ended September 30, 2015

or

TRANSITION REPORT UNDER SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT  
OF 1934

For the Transition Period from \_\_\_\_\_ to \_\_\_\_\_  
Commission File No. 001-32919

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Ascent Solar Technologies, Inc.  
(Exact name of registrant as specified in its charter)

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Delaware 20-3672603  
(State or other jurisdiction of (I.R.S. Employer  
incorporation or organization) Identification No.)

12300 Grant Street, Thornton, CO 80241  
(Address of principal executive offices) (Zip Code)

Registrant's telephone number including area code: 720-872-5000

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Indicate by check mark whether the issuer (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes  No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files).  Yes  No

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

Large accelerated filer  Accelerated filer

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

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes  No

As of November 11, 2015, there were 93,101,628 shares of our common stock issued and outstanding.

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Table of Contents

ASCENT SOLAR TECHNOLOGIES, INC.  
Quarterly Report on Form 10-Q  
Quarterly Period Ended September 30, 2015  
Table of Contents

PART I. FINANCIAL INFORMATION

|         |  |           |
|---------|--|-----------|
| Item 1. | <u>Condensed Consolidated Financial Statements (unaudited)</u>   | <u>3</u>  |
|         | <u>Condensed Consolidated Balance Sheets—As of September 30, 2015 and December 31, 2014</u>  | <u>3</u>  |
|         | <u>Condensed Consolidated Statements of Operations—For the three and nine months ended September 30, 2015 and September 30, 2014</u> | <u>4</u>  |
|         | <u>Condensed Consolidated Statements of Cash Flows—For the nine months ended September 30, 2015 and September 30, 2014</u>           | <u>5</u>  |
|         | <u>Notes to Condensed Consolidated Financial Statements</u>  | <u>6</u>  |
| Item 2. | <u>Management’s Discussion and Analysis of Financial Condition and Results of Operations</u>   | <u>22</u> |
| Item 3. | <u>Quantitative and Qualitative Disclosures About Market Risk</u>  | <u>32</u> |
| Item 4. | <u>Controls and Procedures</u>   | <u>32</u> |

PART II. OTHER INFORMATION

|          |  |           |
|----------|--|-----------|
| Item 1.  | <u>Legal Proceedings</u>   | <u>34</u> |
| Item 1A. | <u>Risk Factors</u>  | <u>34</u> |
| Item 2.  | <u>Unregistered Sales of Equity Securities and Use of Proceeds</u> | <u>34</u> |
| Item 3.  | <u>Defaults Upon Senior Securities</u>                             | <u>34</u> |
| Item 4.  | <u>Mine Safety Disclosures</u>                                     | <u>34</u> |
| Item 5.  | <u>Other Information</u>   | <u>34</u> |
| Item 6.  | <u>Exhibits</u>  | <u>34</u> |
|          | <u>SIGNATURES</u>  | <u>35</u> |
|          | <u>EXHIBIT INDEX</u>   | <u>36</u> |

Table of Contents

## PART I. FINANCIAL INFORMATION

## Item 1. Condensed Consolidated Financial Statements

ASCENT SOLAR TECHNOLOGIES, INC.  
CONDENSED CONSOLIDATED BALANCE SHEETS  
(Unaudited)

|   | September 30,<br>2015 | December 31,<br>2014 |
|---|-----------------------|----------------------|
| <b>ASSETS</b>   |                       |                      |
| Current Assets:   |                       |                      |
| Cash and cash equivalents   | \$619,282             | \$3,316,576          |
| Restricted cash - short term  | —                     | 24,000,000           |
| Trade receivables, net of allowance for doubtful accounts of \$60,346 and \$32,566, respectively  | 1,987,270             | 2,782,105            |
| Inventories   | 4,489,195             | 2,427,212            |
| Prepaid expenses and other current assets   | 1,104,466             | 2,660,384            |
| Total current assets  | 8,200,213             | 35,186,277           |
| Property, Plant and Equipment:  | 37,627,646            | 37,598,452           |
| Less accumulated depreciation and amortization  | (27,153,276 )         | (22,941,264 )        |
|   | 10,474,370            | 14,657,188           |
| Other Assets:   |                       |                      |
| Restricted cash - long term   | —                     | 4,001,880            |
| Patents, net of amortization of \$152,256 and \$122,731, respectively                             | 1,522,707             | 1,305,895            |
| Investment in joint venture   | —                     | 320,000              |
| Other non-current assets  | 114,250               | 449,142              |
|   | 1,636,957             | 6,076,917            |
| Total Assets  | \$20,311,540          | \$55,920,382         |
| <b>LIABILITIES AND STOCKHOLDERS' (DEFICIT) EQUITY</b>   |                       |                      |
| Current Liabilities:  |                       |                      |
| Accounts payable  | \$2,176,471           | \$1,569,746          |
| Accrued expenses  | 2,044,974             | 2,934,246            |
| Current portion of long-term debt   | 343,030               | 302,210              |
| Current portion of convertible note payable, net of discount of \$0 and \$7,607,492, respectively | —                     | 364,093              |
| September 2015 fixed rate convertible notes   | 2,008,767             | —                    |
| Investor Payable, net of discount of \$105,995 and \$0, respectively                              | 6,235,871             | —                    |
| Current portion of litigation settlement  | 528,962               | 493,732              |
| Series D preferred stock, net of discount of \$0 and \$1,194,222, respectively                    | —                     | 224,778              |
| Short term embedded derivative liabilities  | —                     | 4,427,011            |
| Make-whole dividend liability   | 849,560               | 849,560              |
| Total current liabilities   | 14,187,635            | 11,165,376           |
| Accrued Litigation Settlement, net of current portion   | 479,517               | 880,760              |
| Long-Term Debt  | 5,524,889             | 5,764,965            |
| Long-Term Convertible Note, net of discount of \$0 and \$22,930,946, respectively                 | —                     | 1,097,469            |
| Warrant Liability   | —                     | 15,866,667           |
| Long Term Embedded Derivative Liabilities   | —                     | 13,344,155           |
| Accrued Warranty Liability  | 214,000               | 136,000              |

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Commitments and Contingencies (Notes 4 & 14)

Stockholders' (Deficit) Equity:

|  |                |                |
|--|----------------|----------------|
| Series A preferred stock, \$.0001 par value; 750,000 shares authorized and issued;<br>212,390 shares and 212,390 shares outstanding as of September 30, 2015 and<br>December 31, 2014, respectively (\$2,548,680 Liquidation Preference) | 21             | 21             |
| Common stock, \$.0001 par value, 450,000,000 shares authorized; 71,641,574 and<br>18,211,104 shares issued and outstanding, respectively   | 7,164          | 1,821          |
| Additional paid in capital   | 334,420,958    | 306,947,144    |
| Accumulated deficit  | (334,522,644 ) | (299,283,996 ) |
| Total stockholders' (deficit) equity   | (94,501 )      | 7,664,990      |
| Total Liabilities and Stockholders' (Deficit) Equity   | \$20,311,540   | \$55,920,382   |

The accompanying notes are an integral part of these condensed consolidated financial statements.

3

---

Table of Contents

ASCENT SOLAR TECHNOLOGIES, INC.  
 CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS  
 (Unaudited)

|  | For the Three Months Ended<br>September 30, |                 | For the Nine Months Ended<br>September 30, |                 |
|--|---|-----------------|--|-----------------|
|  | 2015  | 2014            | 2015                                       | 2014            |
| Revenues*  | \$1,253,056                                 | \$1,136,732     | \$4,144,919                                | \$2,980,175     |
| Costs and Expenses:  |   |                 |  |                 |
| Cost of revenues (exclusive of depreciation shown below)                                   | 2,291,571                                   | —               | 6,445,282                                  | —               |
| Research, development and manufacturing operations (exclusive of depreciation shown below) | 1,731,670                                   | 5,077,041       | 5,102,379                                  | 13,236,528      |
| Selling, general and administrative (exclusive of depreciation shown below)                | 2,872,114                                   | 3,937,358       | 9,235,606                                  | 10,117,197      |
| Depreciation and amortization  | 1,391,947                                   | 1,505,234       | 4,244,349                                  | 4,480,662       |
| Total Costs and Expenses   | 8,287,302                                   | 10,519,633      | 25,027,616                                 | 27,834,387      |
| Loss from Operations   | (7,034,246 )                                | (9,382,901 )    | (20,882,697 )                              | (24,854,212 )   |
| Other Income/(Expense)   |   |                 |  |                 |
| Other Income/(Expense), net  | (94,983 )                                   | 5               | (60,294 )                                  | (299,023 )      |
| Interest expense   | (3,580,371 )                                | (139,169 )      | (18,788,664 )                              | (387,568 )      |
| Deemed interest expense on warrant liability   | —   | —               | (909,092 )                                 | —               |
| Change in fair value of derivatives and gain/(loss) on extinguishment of liabilities, net  | 4,596,398                                   | (2,725,499 )    | 5,402,099                                  | (5,896,627 )    |
| Total Other Income/(Expense)   | 921,044                                     | (2,864,663 )    | (14,355,951 )                              | (6,583,218 )    |
| Net Loss   | \$(6,113,202 )                              | \$(12,247,564 ) | \$(35,238,648 )                            | \$(31,437,430 ) |
| Deemed dividend on Preferred Stock and accretion of warrants                               | —   | —               | —  | (8,087,500 )    |
| Net Loss applicable to common stockholders   | \$(6,113,202 )                              | \$(12,247,564 ) | \$(35,238,648 )                            | \$(39,524,930 ) |
| Net Loss Per Share (Basic and diluted)   | \$(0.11 )                                   | \$(1.09 )       | \$(0.64 )                                  | \$(4.55 )       |
| Weighted Average Common Shares Outstanding (Basic and diluted)                             | 56,610,051                                  | 11,277,895      | 55,279,811                                 | 8,688,396       |

\* Includes related party revenue of \$8,050 for the nine months ended September 30, 2014.

The accompanying notes are an integral part of these condensed consolidated financial statements.

Table of Contents

ASCENT SOLAR TECHNOLOGIES, INC.  
 CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS  
 (Unaudited)

|   | Nine Months Ended<br>September 30, |                 |
|---|------------------------------------|-----------------|
|   | 2015                               | 2014            |
| Operating Activities:   |                                    |                 |
| Net loss  | \$(35,238,648                      | ) \$(31,437,430 |
| Adjustments to reconcile net loss to net cash used in operating activities:               |                                    |                 |
| Depreciation and amortization   | 4,244,349                          | 4,480,662       |
| Share based compensation  | 689,911                            | 633,396         |
| Amortization of financing costs to interest expense                                       | 345,264                            | —               |
| Non-cash interest expense   | 1,398,874                          | —               |
| Amortization of debt discount   | 16,520,326                         | —               |
| Non-cash Preferred C Penalty Shares   | —                                  | 300,000         |
| Loss on Note Receivable   | 99,000                             | —               |
| Loss on Joint Venture   | 120,000                            | —               |
| Accrued litigation settlement   | (366,013                           | ) 173,498       |
| Deemed interest expense on warrant liability  | 909,092                            | —               |
| Change in fair value of derivatives and gain/(loss) on extinguishment of liabilities, net | (5,402,099                         | ) 5,896,627     |
| Bad debt expense  | 77,524                             | —               |
| Changes in operating assets and liabilities:  |                                    |                 |
| Accounts receivable   | 717,311                            | (796,666        |
| Related party receivables and deposits  | —                                  | (113,078        |
| Inventories   | (2,061,983                         | ) (195,323      |
| Prepaid expenses and other current assets   | 644,828                            | (1,382,429      |
| Accounts payable  | 606,725                            | 1,224,737       |
| Accrued expenses  | (889,272                           | ) 746,451       |
| Warranty reserve  | 78,000                             | 43,063          |
| Net cash used in operating activities   | (17,506,811                        | ) (20,426,492   |
| Investing Activities:   |                                    |                 |
| Purchase of property, plant and equipment   | (29,194                            | ) (67,154       |
| Note Receivable   | —                                  | (171,000        |
| Interest income on restricted cash  | (49,446                            | ) —             |
| Patent activity costs   | (246,337                           | ) (362,776      |
| Net cash used in investing activities   | (324,977                           | ) (600,930      |
| Financing Activities:   |                                    |                 |
| Payment of debt financing costs   | (416,250                           | ) —             |
| Repayment of debt   | (199,256                           | ) (210,465      |
| Proceeds from convertible notes   | 2,000,000                          | —               |
| Changes in restricted cash  | 9,250,000                          | —               |
| Proceeds from issuance of stock and warrants  | 4,500,000                          | 18,906,637      |
| Net cash provided by financing activities   | 15,134,494                         | 18,696,172      |
| Net change in cash and cash equivalents   | (2,697,294                         | ) (2,331,250    |
| Cash and cash equivalents at beginning of period  | 3,316,576                          | 3,318,155       |
| Cash and cash equivalents at end of period  | \$619,282                          | \$986,905       |

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Supplemental Cash Flow Information:

|   |              |              |
|---|--------------|--------------|
| Cash paid for interest  | \$347,138    | \$384,612    |
| Non-Cash Transactions:  |              |              |
| Non-cash conversions of preferred stock and convertible notes to equity | \$14,221,926 | \$13,025,345 |
| Make-whole provision on convertible preferred stock                     | \$—          | \$8,087,500  |

The accompanying notes are an integral part of these condensed consolidated financial statements.

Table of Contents

ASCENT SOLAR TECHNOLOGIES, INC.  
NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS  
(Unaudited)

NOTE 1. ORGANIZATION

Ascent Solar Technologies, Inc. ("Ascent") was incorporated on October 18, 2005 from the separation by ITN Energy Systems, Inc. ("ITN") of its Advanced Photovoltaic Division and all of that division's key personnel and core technologies. ITN, a private company incorporated in 1994, is an incubator dedicated to the development of thin-film, photovoltaic ("PV"), battery, fuel cell and nano technologies. Through its work on research and development contracts for private and governmental entities, ITN developed proprietary processing and manufacturing know-how applicable to PV products generally, and to Copper-Indium-Gallium-diSelenide ("CIGS") PV products in particular. ITN formed Ascent to commercialize its investment in CIGS PV technologies. In January 2006, in exchange for 102,800 shares of common stock of Ascent, ITN assigned to Ascent certain CIGS PV technologies and trade secrets and granted to Ascent a perpetual, exclusive, royalty-free worldwide license to use, in connection with the manufacture, development, marketing and commercialization of CIGS PV to produce solar power, certain of ITN's existing and future proprietary and control technologies that, although non-specific to CIGS PV, Ascent believes will be useful in its production of PV modules for its target markets. Upon receipt of the necessary government approvals and pursuant to novation in early 2007, ITN assigned government-funded research and development contracts to Ascent and also transferred the key personnel working on the contracts to Ascent.

Currently, the Company is producing consumer oriented products focusing on charging mobile devices powered by or enhanced by the Company's solar modules. Products in these markets are priced based on the overall product value proposition rather than a commodity-style price per watt basis. The Company continues to develop new consumer products and has adjusted utilization of its equipment to meet near term sales forecasts.

NOTE 2. BASIS OF PRESENTATION

The accompanying condensed consolidated financial statements have been derived from the accounting records of Ascent Solar Technologies, Inc., Ascent Solar (Asia) Pte. Ltd., and Ascent Solar (Shenzhen) Co., Ltd. (collectively, "the Company") as of September 30, 2015 and December 31, 2014, and the results of operations for the three and nine months ended September 30, 2015 and 2014. Ascent Solar (Shenzhen) Co., Ltd. is wholly owned by Ascent Solar (Asia) Pte. Ltd., which is wholly owned by Ascent Solar Technologies, Inc. All significant inter-company balances and transactions have been eliminated in the accompanying condensed consolidated financial statements.

The Company's activities from inception through December 31, 2014 consisted substantially of raising capital, research and development, establishment and development of the Company's production plant, product development and establishing sales channels for its line of consumer products which is sold under the EnerPlex™ brand. Revenues from inception through December 31, 2014 had been primarily generated from the Company's governmental research and development contracts until EnerPlex branded products began to sell in higher volumes in 2014. During this time period the Company's primary focus was not generating significant revenue, and thus cost of revenue was not considered a relevant number due to the development nature of the Company. As such, the majority of the Company's costs were considered to be research and development costs from inception through December 31, 2014. Beginning in 2015, due to the success of EnerPlex branded products, the Company's primary focus going forward is to build on the Company's past results and to significantly increase our revenues. As the Company's primary focus is increasing revenues by utilizing and expanding the sales channels established during prior years, the Company has determined that cost of revenue is a relevant number going forward. As such, the Company has included a Cost of revenues line item in the Condensed Consolidated Statements of Operations for the three and nine months ended September 30, 2015.

The accompanying unaudited condensed consolidated financial statements have been prepared in accordance with accounting principles generally accepted in the United States of America ("U.S. GAAP") for interim financial information and in accordance with the instructions to Form 10-Q and Article 8 of Regulation S-X. Accordingly, these interim financial statements do not include all of the information and footnotes typically found in U.S. GAAP audited



annual financial statements. In the opinion of management, all adjustments (consisting only of normal recurring adjustments) considered necessary for a fair statement have been included. The Condensed Consolidated Balance Sheet at December 31, 2014 has been derived from the audited financial statements as of that date but does not include all of the information and footnotes included in the Company's Annual Report on Form 10-K for the year ended December 31, 2014. These condensed consolidated financial statements and notes should be read in conjunction with the financial statements and notes thereto included in the Company's Annual Report on Form 10-K for the year ended December 31, 2014.

Table of Contents

The preparation of financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates. Operating results for the nine months ended September 30, 2015 are not necessarily indicative of the results that may be expected for the year ending December 31, 2015.

**NOTE 3. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES**

The Company's significant accounting policies were described in Note 3 to the audited financial statements included in the Company's Annual Report on Form 10-K for the year ended December 31, 2014.

In May 2014, the FASB issued ASU No. 2014-09, Revenue from Contracts with Customers (Topic 606). The update will establish a comprehensive revenue recognition standard for virtually all industries in GAAP. ASU 2014-09 will change the amount and timing of revenue and cost recognition, implementation, disclosures and documentation. In August 2015, the FASB issued ASU No. 2015-14, Revenue from Contracts with Customers (Topic 606): Deferral of Effective Date. The amendments in ASU 2015-14 defer the effective date of ASU 2014-09 for all entities by one year. ASU 2014-09 is now effective for the Company in fiscal year 2018. The Company is researching whether the adoption of ASU 2014-09 will have a material effect on the Company's financial statements.

In June 2014, the FASB issued ASU No. 2014-10, Development Stage Entities (Topic 915). Amongst other things, the amendments in this update removed the definition of development stage entity from Topic 915, thereby removing the distinction between development stage entities and other reporting entities from US GAAP. In addition, the amendments eliminate the requirements for development stage entities to (1) present inception-to-date information on the statements of income, cash flows and shareholders' equity; (2) label the financial statements as those of a development stage entity; (3) disclose a description of the development stage activities in which the entity is engaged; and (4) disclose in the first year in which the entity is no longer a development stage entity that in prior years it had been in the development stage. The standard was effective for the Company during the first quarter of 2015. Accordingly, the Company has adopted this standard and has not disclosed inception-to-date information on the statements of income and cash flows and the Company has not labeled the financial statements as those of a development stage entity.

In August 2014, the FASB issued ASU No. 2014-15, Presentation of Financial Statements—Going Concern (Subtopic 205-40): Disclosure of Uncertainties about an Entity's Ability to Continue as a Going Concern. ASU 2014-15 requires management to evaluate, in connection with preparing financial statements for each annual and interim reporting period, whether there are conditions or events, considered in the aggregate, that raise substantial doubt about an entity's ability to continue as a going concern within one year after the date that the financial statements are issued and to provide certain disclosures if it concludes that substantial doubt exists. ASU 2014-15 is effective for all entities for the annual period ending after December 15, 2016, and for annual and interim periods thereafter, with early adoption permitted. The Company has not early adopted ASU 2014-15. The Company is researching whether the adoption of ASU 2014-15 will have a material effect on the Company's financial statements.

In July 2015, the FASB issued ASU No. 2015-11, Inventory (Topic 330): Simplifying the Measurement of Inventory, which states that inventory should be measured at the lower of cost and net realizable value. Net realizable value is defined as estimated selling price in the ordinary course of business, less reasonably predictable costs of completion, disposal and transportation. This ASU is effective within annual periods beginning on or after December 15, 2016, including interim periods within that reporting period. The Company is currently evaluating the impact, if any, that the adoption of this guidance will have on its financial statements.

Reclassifications: Certain reclassifications have been made to the 2014 financial information to conform to the 2015 presentation. Such reclassifications had no effect on the net loss.

**NOTE 4. LIQUIDITY AND CONTINUED OPERATIONS**

In February 2015, the Company completed the sale of 2,500 shares of Series D-1 preferred stock in a private placement for gross proceeds of \$2.5 million. 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 1,000,000 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.

Table of Contents

On June 10, 2015, the Company entered into a securities purchase agreement with TFG Radiant for a private placement of a total of 1,000,000 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. Immediately after the closing, TFG Radiant owned approximately 13.8% of the Company's Common Stock.

On November 14, 2014, the Company entered into a securities purchase agreement (the "November 2014 Purchase Agreement") with one institutional and accredited investor (the "Investor"). Pursuant to the terms of the November 2014 Purchase Agreement, the Company sold to the Investor (i) \$3,000,000 (3,000 shares) of Series D Convertible Preferred Stock (the "Series D Preferred Stock"), and (ii) \$32,000,000 original principal amount of senior secured convertible notes (the "Notes"). On September 4, 2015, the Company entered into a Cancellation and Waiver Agreement (the "Cancellation Agreement"), between the Company and the Investor. Pursuant to the Cancellation Agreement, the Company has agreed to retire all \$21.2 aggregate principal amount of its currently outstanding Notes. As of September 30, 2015, our outstanding liability to the Investor is \$6.2 million. See Note 9 for further information related to the Cancellation Agreement and see Note 16 for information related to an amendment to the Cancellation Agreement which occurred subsequent to September 30, 2015.

On September 4, 2015, the Company entered into a note purchase agreement between the Company and two accredited investors (the "Lenders"). Pursuant to the new loan agreement, the Company issued to the Lenders \$1.5 million original principal amount of secured subordinated convertible notes on September 4, 2015, and an additional \$0.5 million original principal amount of secured subordinated convertible notes on September 28, 2015. See Note 10 for further information.

The Company has continued PV production at its manufacturing facility. The Company does not expect that sales revenue and cash flows will be sufficient to support operations and cash requirements until it has fully implemented its new consumer products strategy. During the nine months ended September 30, 2015 the Company used \$17.5 million in cash for operations. The Company's primary significant long term cash obligation consists of a note payable of \$5.9 million to a financial institution secured by a mortgage on its headquarters and manufacturing building in Thornton, Colorado. Total payments of \$0.2 million, including principal and interest, will come due in the remainder of 2015. The Company owes \$1.0 million as of September 30, 2015 related to a litigation settlement reached in April 2014, which is being paid in equal installments over 40 months which began in April 2014.

Additional projected product revenues are not anticipated to result in a positive cash flow position for the year 2015 overall and as of September 30, 2015 the Company has negative working capital. As such, cash liquidity sufficient for the year ending December 31, 2015 will require additional financing. Subsequent to September 30, 2015, the Company entered into a securities purchase agreement with a private investor (the "Private Investor") for the private placement of up to \$2,800,000 of the Company's newly designated Series E Convertible Preferred Stock ("Series E Preferred Stock"). Additionally on November 10, 2015, the Company and the Private Investor entered into a committed equity line purchase agreement (the "CEL Purchase Agreement"). Under the terms of the CEL Purchase Agreement, at its option the Company has the right to sell to the Private Investor, and the Private Investor is obligated to purchase from the Company, up to \$32.2 million of the Company's common stock, subject to certain limitations. See Note 16 for further information.

The Company continues to accelerate sales and marketing efforts related to its consumer products strategy through increased promotion and expansion of its sales channel. The Company has begun activities related to securing additional financing through strategic or financial investors, but there is no assurance the Company will be able to raise additional capital on acceptable terms or at all. If the Company's revenues do not increase rapidly, and/or additional financing is not obtained, the Company will be required to significantly curtail operations to reduce costs and/or sell assets. Such actions would likely have an adverse impact on the Company's future operations.

**NOTE 5. PROPERTY, PLANT AND EQUIPMENT**

The following table summarizes property, plant and equipment as of September 30, 2015 and December 31, 2014:



Table of Contents

|  | As of September<br>30,<br>2015 | As of December 31,<br>2014 |
|--|--------------------------------|----------------------------|
| Building   | \$5,828,960                    | \$ 5,828,960               |
| Furniture, fixtures, computer hardware and computer software | 480,976                        | 475,266                    |
| Manufacturing machinery and equipment                        | 31,317,710                     | 31,227,523                 |
| Net depreciable property, plant and equipment                | 37,627,646                     | 37,531,749                 |
| Manufacturing machinery and equipment in progress            | —                              | 66,703                     |
| Property, plant and equipment                                | 37,627,646                     | 37,598,452                 |
| Less: Accumulated depreciation and amortization              | (27,153,276 )                  | (22,941,264 )              |
| Net property, plant and equipment                            | \$10,474,370                   | \$ 14,657,188              |

The Company analyzes its long-lived assets for impairment, both individually and as a group, whenever events or changes in circumstances indicate that the carrying amount of the assets may not be recoverable.

Depreciation expense for the three months ended September 30, 2015 and 2014 was \$1,381,521 and \$1,494,455, respectively. Depreciation expense for the nine months ended September 30, 2015 and 2014 was \$4,212,012 and \$4,456,145, respectively. Depreciation expense is recorded under “Depreciation and amortization expense” in the Condensed Consolidated Statements of Operations.

## NOTE 6. INVENTORIES

Inventories consisted of the following at September 30, 2015 and December 31, 2014:

|                 | As of September<br>30,<br>2015 | As of December<br>31,<br>2014 |
|-----------------|--------------------------------|-------------------------------|
| Raw materials   | \$1,074,520                    | \$941,912                     |
| Work in process | 888,542                        | 335,275                       |
| Finished goods  | 2,526,133                      | 1,150,025                     |
| Total           | \$4,489,195                    | \$2,427,212                   |

## NOTE 7. DEBT

On February 8, 2008, the Company acquired a manufacturing and office facility in Thornton, Colorado, for approximately \$5.5 million. The purchase was financed by a promissory note, deed of trust and construction loan agreement (the “Construction Loan”) with the Colorado Housing and Finance Authority (“CHFA”), which provided the Company borrowing availability of up to \$7.5 million for the building and building improvements. In 2009, the Construction Loan was converted to a permanent loan pursuant to a Loan Modification Agreement between the Company and CHFA (the “Permanent Loan”). The Permanent Loan, collateralized by the building, has an interest rate of 6.6% and the principal will be amortized through its term to January 2028. The Company will incur a prepayment penalty if the Permanent Loan is prepaid prior to December 31, 2015. Further, pursuant to certain negative covenants in the Permanent Loan, the Company may not, among other things, without CHFA’s prior written consent (which by the terms of the deed of trust is subject to a reasonableness requirement): create or incur additional indebtedness (other than obligations created or incurred in the ordinary course of business); merge or consolidate with any other entity; or make loans or advances to the Company’s officers, shareholders, directors or employees. The outstanding balance of the Permanent Loan was \$5,867,919 as of September 30, 2015.

As of September 30, 2015, future principal payments on long-term debt are due as follows:



Table of Contents

|            |             |
|------------|-------------|
| 2015       | \$102,955   |
| 2016       | 322,771     |
| 2017       | 344,730     |
| 2018       | 368,183     |
| 2019       | 393,232     |
| Thereafter | 4,336,048   |
|            | \$5,867,919 |

**NOTE 8. MAKE-WHOLE DIVIDEND LIABILITY**

In June 2013, the Company entered into a Series A Preferred Stock Purchase Agreement. Holders of Series A Preferred Stock are entitled to cumulative dividends at a rate of 8.0% per annum, with the dividend rate being indexed to the Company's stock price and subject to adjustment. Conversion or redemption of the Series A Preferred Stock within 4 years of issuance requires the Company pay a make-whole dividend to the holders, whereby dividends for the full four year period are to be paid in cash or common stock (valued at 10% below market price).

The Company concluded the make-whole dividends should be characterized as embedded derivatives under ASC 815. Make-whole dividends are expensed at the time of issuance and recorded as "Deemed dividends on Preferred Stock and accretion of warrants" in the Condensed Consolidated Statements of Operations and "Make-whole dividend liability" in the Condensed Consolidated Balance Sheets.

The fair value of these dividend liabilities, which are indexed to the Company's common stock, must be evaluated at each period end. The fair value measurements rely primarily on Company-specific inputs and the Company's own assumptions. With the absence of observable inputs, the Company determined these recurring fair value measurements reside primarily within Level 3 of the fair value hierarchy. The fair value determination required forecasting stock price volatility, expected average annual return and conversion date. During the nine months ended September 30, 2015, there was no change in the fair value of the make-whole liability from the fair value at December 31, 2014.

At September 30, 2015, there were 212,390 shares of Series A outstanding. At September 30, 2015, the Company was entitled to redeem the outstanding Series A preferred shares for \$1.7 million, plus a make-whole amount of \$0.8 million, payable in cash or common shares. The fair value of the make-whole dividend liabilities for the Series A preferred shares, which approximates cash value, was \$0.8 million as of September 30, 2015.

**NOTE 9. CONVERTIBLE NOTE, SERIES D PREFERRED STOCK, AND SERIES D-1 PREFERRED STOCK****Convertible Note and Series D Preferred Stock Financing Transaction**

On November 14, 2014, the Company entered into the November 2014 Purchase Agreement with the Investor. Pursuant to the terms of the November 2014 Purchase Agreement, the Company sold to the Investor (i) \$3,000,000 (3,000 shares) of Series D Convertible Preferred Stock, (ii) \$32,000,000 original principal amount of senior secured convertible notes, and (iii) Warrants to purchase up to 7,777,778 shares of the Company's common stock, par value \$0.0001 per share. At the closing of the sale of the Financing, 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 November 2014 Purchase Agreement. The Financing closed on November 19, 2014.

**Proceeds Received and Restricted Cash**

The Company received gross proceeds of approximately \$4.5 million at closing. The remaining \$30.5 million of gross proceeds from the Financing was deposited on the closing date by the Investor into restricted control accounts. \$2.5 million of these restricted proceeds were released on December 22, 2014 to the Company. Thereafter, additional funds



from the control accounts shall be released to the Company (i) in connection with certain conversions of the Notes and redemptions of the Series D Preferred Stock, and (ii) up to \$6 million in any 90 day period, provided that the Company meets certain equity conditions. During the nine months ended September 30, 2015, \$9 million has been released to the Company.

Description of the Notes and Series D Preferred Stock

10

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Table of Contents

The Notes rank senior to the Company's outstanding and future indebtedness, except for certain existing permitted indebtedness of the Company. The Notes are secured by a first priority perfected security interest in all of the Company's and its subsidiaries' current and future assets (including a pledge of the stock of the Company's subsidiaries), other than those assets which already secure the Company's existing permitted indebtedness. So long as any Notes remain outstanding, the Company and its subsidiaries will not incur any new indebtedness, except for permitted indebtedness under the Notes, or create any new encumbrances on the Company's or its subsidiaries' assets, except for permitted liens under the Notes. Under certain circumstances, subsidiaries of the Company will be required to guarantee the Company's obligations under the Notes. The Series D Preferred Stock ranked pari passu with the Company's existing Series A Preferred Stock with respect to dividends and rights upon liquidation. The Series D Preferred Stock ranked senior to the Company's Common Stock with respect to dividends and rights upon liquidation. The Series D Preferred Stock ranked junior to all existing and future indebtedness. The Series D Preferred Stock was unsecured.

Unless earlier converted or redeemed, the Notes mature 42 months after the closing date (the "Maturity Date"), subject to the right of the Investors to extend the date under certain circumstances. The Series D Preferred Stock had no fixed maturity date or mandatory redemption date.

All amounts due under the Notes and the Series D Preferred Stock were convertible at any time, in whole or in part, at the option of the Investor into shares of Common Stock at a fixed conversion price, which was subject to adjustment for stock splits, stock dividends, combinations or similar events. The Notes and the Series D Preferred Stock were convertible into shares of Common Stock at the initial price of \$2.25 per share (the "Conversion Price"). If and whenever on or after the closing date, the Company issued or sold any shares of Common Stock for a consideration per share (the "New Issuance Price"), less than a price equal to the Conversion Price in effect immediately prior to such issuance or sale (a "Dilutive Issuance"), then, immediately after such Dilutive Issuance, the Conversion Price then in effect would be reduced to an amount equal to the New Issuance Price.

The Company could redeem all, but not less than all, of the Notes or the Series D Preferred Stock at any time after 30 calendar days after the earlier of (A) the date that a resale registration statement for the resale of a portion of the Common Stock underlying the Notes and Warrants becomes effective or (B) the date that the shares of Common Stock underlying the Notes and Warrants are eligible for resale under Rule 144, provided that the Company met certain equity conditions. In the case of an optional redemption of Notes or Series D Preferred Stock by the Company, the Notes would have been redeemed in cash at a price with a redemption premium of 120% calculated by the formula specified in the Notes and the Series D Preferred Stock. The Company would have been required to provide holders of the Notes or Series D Preferred Stock with at least 90 trading days prior notice of its election to redeem the Notes or the Series D Preferred Stock.

The Investor had the option to convert a portion of the Notes or the Series D Preferred Stock into shares of Common Stock at an "Alternate Conversion Price" equal to the lowest of (i) the Conversion Price then in effect and (ii) 85% of the quotient of the sum of the volume-weighted average price of the Common Stock for each of the three lowest trading days during the ten consecutive trading day period ending and including the trading day immediately prior to the date of the applicable conversion date, divided by three. During the nine months ended September 30, 2015, the Investor exercised their option to convert \$2,305,000 of Notes value at an Alternate Conversion Price resulting in the issuance of 8,318,690 Common Shares.

The Company had agreed to make amortization payments with respect to the principal amount of the Notes and the liquidation value of the Series D Preferred Stock in shares of its Common Stock, subject to the satisfaction of certain equity conditions, or at the Company's option, in cash or a combination of shares of Common Stock and cash, in equal installments payable once every month. Per the terms of the Financing, the Company was required to make

pre-payments on the monthly amortization payments twenty trading days prior to the installment due date. During the nine months ended September 30, 2015, the Company made installment payments towards the Series D Preferred Stock totaling \$565,341, resulting in the issuance of 1,465,972 shares of common stock. Amortization payments were first applied to the redemption of shares of Series D Preferred Stock until all shares of the Series D Preferred Stock were redeemed. Thereafter, amortization payments were applied to pay principal and interest on the Notes. During the nine months ended September 30, 2015, the Company made installment payments towards the Notes totaling \$3,703,293, resulting in the issuance of 21,424,686 shares of common stock.

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

Table of Contents

The Company classified the Series D Preferred Stock as a liability pursuant to ASC 480 at December 31, 2014 due to the structure of the financing agreement, whereby the Company had an unconditional obligation that the Company settled by issuing a variable number of common shares with a monetary value that was fixed and known at inception. There are 0 shares of Series D Preferred Stock outstanding as of September 30, 2015.

The Investor could elect to defer the payment of the installment amount due on any installment dates, in whole or in part, to another installment date, in which case the amount deferred became part of such subsequent installment date and continued to accrue interest and dividends as applicable. During an installment period, the Investor could elect to accelerate the amortization of the Notes or the Series D Preferred Stock at the Installment Conversion Price of the current installment date if, in the aggregate, all such accelerations in such period did not exceed five times the installment amount. Such accelerated amounts were payable in the Company's common stock. During the nine months ended September 30, 2015, the Investor elected to defer \$1,707,317 of amortization payments to a later installment date. As a result of the deferral, \$351,899 of interest expense was added to the principal balance of the Notes. During the nine months ended September 30, 2015, the Investor elected to accelerate \$5,145,375 of the Notes, resulting in the issuance of 12,651,059 shares of common stock.

The Notes bore interest at a rate of 7% per annum, subject to increase to 15% per annum upon the occurrence and continuance of an event of default. Holders of the Series D Preferred Stock were entitled to receive dividends in the amount of 7% per annum, subject to increase to 15% per annum upon the occurrence and continuance of certain events of default. Interest on the Notes and dividends on the Series D Preferred Stock were payable monthly in shares of Common Stock or cash, at the Company's option. Interest on the Notes and dividends on the Series D Preferred Stock was computed on the basis of a 360-day year and twelve 30-day months and was payable in arrears monthly and was compounded monthly. During the nine months ended September 30, 2015, the Company paid dividends in the amount of \$3,572 on the Series D Preferred Stock, resulting in the issuance of 11,241 shares of common stock, and interest in the amount of \$984,632 on the Note, resulting in the issuance of 3,420,461 shares of common stock.

The Notes and the Series D Preferred Stock contained standard and customary events of default including but not limited to: (i) failure to make payments when due under the Notes and the Series D Preferred Stock; (ii) bankruptcy or insolvency of the Company; and (iii) certain failures (in the case of the Notes) to comply with the requirements under the registration rights agreement. If there was an event of default, a holder of the Notes or the Series D Preferred Stock could require the Company to redeem all or any portion of the Notes or the Series D Preferred Stock (including all accrued and unpaid interest and dividends and all interest and dividends that have accrued through the Maturity Date), in cash, at a price equal to the greater of: (i) up to 125% of the amount being redeemed, depending on the nature of the default, and (ii) the product of (A) the conversion rate in effect at such time multiplied by (B) the product of (1) up to 125%, depending on the nature of the default, multiplied by (2) the highest closing sale price of the Common Stock on any trading day during the period beginning on the date immediately before the event of default and ending on the date of redemption. Additionally, if there was an event of default, a holder of the Notes or the Series D Preferred Stock could convert all or any portion of the Notes or the Series D Preferred Stock into shares of Common Stock. In such event, the conversion price would have been the lowest of (i) the Conversion Price then in effect and (ii) 85% of the quotient of (A) the sum of the volume-weighted average price of the Common Stock for each of the three lowest trading days during the 10 consecutive trading day period ending and including the trading day immediately prior to the date of the applicable conversion date, divided by three.

Pursuant to a number of factors outlined in ASC Topic 815, Derivatives and Hedging, the conversion options in the Notes were deemed to include an embedded derivative that required bifurcation and separate accounting. As such, the Company ascertained the value of the conversion option as if separate from the convertible issuance and appropriately recorded that value as a derivative liability. At December 31, 2014, the derivative liability value associated with the Notes was \$17.4 million.

Cancellation of the Notes

On September 4, 2015, the Company entered into a Cancellation and Waiver Agreement (the "Cancellation Agreement") with the Investor. Pursuant to the Cancellation Agreement, the Company agreed to retire all \$21.2 million outstanding Notes as of September 4, 2015. Under the terms of the Cancellation Agreement, the Company will pay the Investor an aggregate of \$25.1 million to retire all \$21.2 million aggregate principal amount of Notes outstanding as of September 4, 2015. \$18.8 million was paid immediately to the Investor and was funded from the Company's restricted control account relating to the Notes. The remaining \$6.3 million (the "Investor Payable") will be paid in two installments; \$2.4 million will be due in late October 2015 and \$3.9 million will be due in early December 2015.

Upon the full payment of the Investor Payable, all of the Notes shall cease to be outstanding and the security interest in substantially all of the Company's assets (other than the Company's Thornton, Colorado real estate assets which currently

## Table of Contents

secures other outstanding indebtedness) securing the Notes will be released. The Cancellation Agreement provides that there will be no further issuances of the Company's common stock in connection with payments on or conversions of the Notes so long as the Company does not default in making the required payments of the Investor Payable. If the Company does not pay the Investor Payable, the Investor may convert the remaining outstanding portion of the Notes into shares of Common Stock using a conversion price calculated as 85% of the price computed as the quotient of the sum of the three lowest volume-weighted average prices of the Common Stock during the sixty consecutive trading day period ending and including the trading day immediately preceding the delivery or deemed delivery of the applicable Exchange Notice, divided by three.

The Investor Payable is convertible only upon an event of default, as defined, and upon an event of default, the Investor Payable becomes share-settled debt that is subject to ASC 480. As a result, the Company recorded the Investor Payable at fair value as of September 4, 2015 and will amortize the debt discount to Interest expense over the three-month term of the payable. As of September 30, 2015, the Investor Payable was \$6.2 million, net of discount.

The terms of the Cancellation Agreement were amended subsequent to September 30, 2015. Refer to Note 16. Subsequent Events for further information.

A net loss on extinguishment of the Notes and related embedded derivative of \$11.6 million was recorded to "Change in fair value of derivatives and gain/(loss) on extinguishment of liabilities, net" in the Condensed Consolidated Statements of Operations for the nine months ended September 30, 2015.

### Description of Series D-1 Preferred Stock

On February 19, 2015, the Company entered into a securities purchase agreement to issue 2,500 shares of Series D-1 Preferred Stock to an investor in exchange for \$2,500,000. The proceeds were received on the closing date, February 25, 2015.

All amounts due under the Series D-1 Preferred Stock were convertible at any time, in whole or in part, at the option of the investor into shares of Common Stock at a fixed conversion price, which was subject to adjustment for stock splits, stock dividends, combinations or similar events. The Series D-1 Preferred Stock were convertible into shares of Common Stock at the initial price of \$2.31 per share. If and whenever on or after the closing date, the Company issues or sells any shares of Common Stock for a consideration per share, less than a price equal to the conversion price in effect immediately prior to such issuance or sale, then, immediately after such dilutive issuance, the conversion price then in effect shall be reduced to an amount equal to the new issuance price.

The investor had the option to convert a portion of the Series D-1 Preferred Stock into shares of Common Stock at a "D-1 Alternate Conversion Price" equal to the lowest of (i) \$2.31 per share and (ii) 85% of the lowest volume-weighted average price of the Common Stock on any trading day during the five consecutive trading day period ending and including the trading day immediately prior to the date of the applicable conversion date. During the nine months ended September 30, 2015, the investor exercised their option to convert 2,500 Preferred Shares, representing a value of \$2,500,000, at a D-1 Alternate Conversion Price resulting in the issuance of 2,305,824 Common Shares.

Holders of the Series D-1 Preferred Stock were entitled to receive dividends in the amount of 7% per annum, subject to increase to 15% per annum upon the occurrence and continuance of certain events of default. Dividends on the Series D-1 Preferred Stock were payable monthly in shares of Common Stock or cash, at the Company's option. Dividends on the Series D-1 Preferred Stock were computed on the basis of a 360-day year and 12 30-day months and were payable in arrears monthly and were compounded monthly. During the nine months ended September 30, 2015, the Company paid dividends in the amount of \$6,944 on the Series D-1 Preferred Stock, resulting in the issuance of 3,896 shares of common stock.

The Company classified the Series D-1 Preferred Stock as a liability pursuant to ASC 480 on the closing date due to the structure of the financing agreement, whereby the Company had an unconditional obligation that the Company may settle by issuing a variable number of common shares with a monetary value that is fixed and known at inception.

There are 0 shares of Series D-1 Preferred Stock outstanding as of September 30, 2015.

Pursuant to a number of factors outlined in ASC Topic 815, Derivatives and Hedging, the conversion options in the Series D-1 Preferred Stock were deemed to include an embedded derivative that required bifurcation and separate accounting. As such, the Company ascertained the value of the conversion option as if separate from the convertible issuance and appropriately recorded that value as a derivative liability. At closing, a derivative liability and a corresponding debt discount in the amount of \$3.4 million was recorded. The debt discount of \$3.4 million was charged to interest expense. As of September 30, 2015, the value of the derivative liability associated with the Series D-1 Preferred Stock is \$0 as the Series D-1 Preferred Stock was fully converted as of September 30, 2015.

Table of Contents

A net gain of \$2.7 million was recorded to "Change in fair value of derivatives and gain/(loss) on extinguishment of liabilities, net" in the Condensed Consolidated Statements of Operations for the nine months ended September 30, 2015 upon extinguishment of the D-1 Preferred Stock liability and the related embedded derivative.

Embedded derivative associated with the Series D Preferred Stock

Pursuant to a number of factors outlined in ASC Topic 815, Derivatives and Hedging, the conversion options in the Series D Preferred Stock were deemed to include an embedded derivative that required bifurcation and separate accounting. As such, the Company ascertained the value of the conversion option as if separate from the convertible issuance and appropriately recorded that value as a derivative liability. At December 31, 2014, the derivative liability value associated with the Series D Preferred Stock was \$0.4 million. As of September 30, 2015, the value of the derivative liability associated with the Series D Preferred Stock is \$0 as the Series D Preferred Stock was fully converted as of September 30, 2015. A gain of \$0.4 million was recorded to "Change in fair value of derivatives and gain/(loss) on extinguishment of liabilities, net" in the Condensed Consolidated Statements of Operations for the nine months ended September 30, 2015.

Description of the Warrants Associated with the Notes and Series D Preferred Stock, and Series D-1 Preferred Stock

The warrants associated with the Notes and Series D Preferred Stock ("November Warrants") entitled the Investor to purchase, in the aggregate, up to 7,777,778 shares of Common Stock. The November Warrants were exercisable at any time on or after the six month anniversary of the closing date through the fifth anniversary of such date. The November Warrants were exercisable at an initial exercise price equal to \$2.25 per share. The warrants associated with the Series D-1 Preferred Stock (the "February Warrants") entitled the Investor to purchase, in the aggregate, up to 541,126 shares of Common Stock. The February Warrants were exercisable at any time on or after the six month anniversary of the closing date through the fifth anniversary of such date. The February Warrants were exercisable at an initial exercise price equal to \$2.31 per share. The exercise price of the November and February Warrants was subject to adjustment for stock splits, stock dividends, combinations or similar events. In addition, the exercise price was also subject to a "full ratchet" anti-dilution adjustment, subject to customary exceptions, in the event that the Company issued securities at a price lower than the then applicable exercise price.

On July 22, 2015, the Company entered into an Amendment and Exchange Agreement (the "Exchange Agreement"), between the Company and the Investor. Pursuant to the Exchange Agreement, the November and February Warrants have been canceled, and the Company has issued to the Investor a right to receive a fixed number of shares of common stock of the Company in accordance with the terms of a Right to Receive Common Stock dated July 22, 2015 (the "Right").

The Right obligates the Company to issue to the Investor (without the payment of any additional consideration) an aggregate of 8.3 million shares of Common Stock (the "Right Shares"). The Right is immediately exercisable for 1.5 million Right Shares. The Right is not exercisable for the remaining 6.8 million Right Shares until November 22, 2015. In the Exchange Agreement, the Holder has agreed to limit sales of the Right Shares (i) during the period until November 22, 2015 to 750,000 shares during any 30-day period, and (ii) during the six-month period from November 22, 2015 through May 22, 2016 to approximately 1.1 million shares during any 30-day period. During the three months ended September 30, 2015, the Investor has exercised their Right to receive and the Company has delivered 1,500,000 shares of common stock.

Pursuant to ASC 815, the Company was required to report the value of the November and February Warrants as a liability at fair value and record the changes in the fair value of the warrant liability as a gain or loss in its statement of operations due to the price-based anti-dilution provisions. The Company utilized the Monte Carlo simulation valuation method to value the liability classified warrants. At December 31, 2014, the value of the liability associated with the



November Warrants was calculated to be \$15.9 million. At February 25, 2015, the closing date of the February Warrants, the value of the liability associated with the February Warrants was calculated to be \$0.9 million.

As a result of the Exchange Agreement and cancellation of the November and February warrants, a net gain on extinguishment of the warrant liability associated with the November and February Warrants of \$13.9 million was recorded to "Change in fair value of derivatives and gain/(loss) on extinguishment of liabilities, net" in the Condensed Consolidated Statements of Operations for the nine months ended September 30, 2015.

The terms of the Exchange Agreement were amended subsequent to September 30, 2015. Refer to Note 16. Subsequent Events for further information.

The fair value of the February Warrants as of February 25, 2015 was determined using Level 3 inputs. Inherent in the Monte Carlo valuation model are assumptions related to expected stock-price volatility, expected life, risk-free interest rate and

Table of Contents

dividend yield. The Company estimated the volatility of its common stock to be 69% based on the expected remaining life of the February Warrants, 5.50 years. The risk-free interest rate of 1.47% is based on the U.S. Treasury zero-coupon yield curve on the grant date for a maturity similar to the expected remaining life of the February Warrants. The dividend rate is based on the historical rate, which the Company anticipates to remain at zero.

NOTE 10. SEPTEMBER 2015 CONVERTIBLE NOTES

On September 4, 2015, the Company entered into a note purchase agreement between the Company and the Lenders. Pursuant to the new loan agreement, the Company issued to the Lenders \$1.5 million original principal amount of secured subordinated convertible notes on September 4, 2015, and an additional \$0.5 million original principal amount of secured subordinated convertible notes on September 28, 2015 (collectively, the “September 2015 Convertible Notes”).

All amounts due under the September 2015 Convertible Notes are convertible at any time, in whole or in part, at the option of the Lenders into shares of Common Stock at a fixed conversion price, which is subject to adjustment for stock splits, stock dividends, combinations or similar events, of \$0.12 per share (the “Conversion Price”). The Company, however, is prohibited from issuing shares of Common Stock pursuant to the September 2015 Convertible Notes unless stockholder approval of such issuance of securities is obtained as required by applicable NASDAQ listing rules. The Company intends to seek stockholder approval of such share issuances at a special stockholders meeting to be held in December 2015. This provision results in a contingent beneficial conversion feature that will be recognized when the contingency is resolved based on its intrinsic value at the commitment date.

There are no registration rights applicable to the September 2015 Convertible Notes. Accordingly, any shares of Common Stock issued upon conversion of the September 2015 Convertible Notes will be restricted and may only be sold in compliance with Rule 144 or in accordance with another exemption from registration.

Unless earlier converted or redeemed, the September 2015 Convertible Notes will mature on September 4, 2016 (the “Maturity Date”). The September 2015 Convertible Notes bear interest at a rate of 8% per annum. Principal and interest on the September 2015 Convertible Notes is payable on the Maturity Date.

The September 2015 Convertible Notes will be secured by a security interest in substantially all of the Company’s assets (other than the Company’s Thornton, Colorado real estate assets which currently secure other outstanding indebtedness). The security interest for the September 2015 Convertible Notes will be subordinated to the security interest securing the Investor Payable unless and until the Investor Payable is completely retired.

NOTE 11. STOCKHOLDERS’ EQUITY

Common Stock

At September 30, 2015, the Company had 450,000,000 shares of common stock, \$0.0001 par value, authorized for issuance. Each share of common stock has the right to one vote. As of September 30, 2015, the Company had 71,641,574 shares of common stock outstanding. The Company has not declared or paid any dividends related to the common stock through September 30, 2015.

Preferred Stock

At September 30, 2015, the Company had 25,000,000 shares of preferred stock, \$0.0001 par value, authorized for issuance. Preferred stock may be issued in classes or series. Designations, powers, preferences, rights, qualifications, limitations and restrictions are determined by the Company’s Board of Directors. 750,000 shares have been designated as Series A preferred stock, 2,000 shares have been designated for Series B-1 and B-2 preferred stock, 690 shares have been designated as Series C preferred stock, 3,000 shares have been designated as Series D preferred stock, and 2,500 shares have been designated as Series D-1 preferred stock. As of September 30, 2015, the Company had 212,390 shares of Series A preferred stock and no shares of Series B-1, Series B-2, Series C, Series D, or Series

D-1 preferred stock outstanding. The Company has no declared unpaid dividends related to the preferred stock as of September 30, 2015.

Series A Preferred Stock

In June 2013, the Company entered into a Securities Purchase Agreement with an investor to sell an aggregate of 750,000 shares of Series A Preferred Stock at a price of \$8.00 per share, resulting in gross proceeds of \$6,000,000. This purchase agreement included warrants to purchase up to 262,500 shares of common stock of the Company. The transfer of cash and securities took place incrementally, the first closing occurring on June 17, 2013 with the transfer of 125,000 shares of Series A Preferred Stock and a warrant to purchase 43,750 shares of common stock for \$1,000,000. The final closings took place in August 2013, with the transfer of 625,000 shares of Series A Preferred Stock and a warrant to purchase 218,750 shares of common stock for \$5,000,000.

Table of Contents

Holders of Series A Preferred Stock are entitled to cumulative dividends at a rate of 8.0% per annum when and if declared by the Board of Directors in its sole discretion. The dividends may be paid in cash or in the form of common stock (valued at 10% below market price, but not to exceed the lowest closing price during the applicable measurement period), at the discretion of the Board of Directors. The dividend rate on the Series A Preferred Stock is indexed to the Company's stock price and subject to adjustment. In addition, the Series A Preferred Stock contains a make-whole provision whereby, conversion or redemption of the preferred stock within 4 years of issuance will require dividends for the full four year period to be paid by the Company in cash or common stock (valued at 10% below market price, but not to exceed the lowest closing price during the applicable measurement period).

The Series A Preferred Stock may be converted into shares of common stock at the option of the Company if the closing price of the common stock exceeds \$11.60, as adjusted, for 20 consecutive trading days, or by the holder at any time. The Company has the right to redeem the Series A Preferred Stock at a price of \$8.00 per share, plus any accrued and unpaid dividends, plus the make-whole amount (if applicable). At September 30, 2015, the preferred shares were not eligible for conversion to common shares at the option of the Company. The holder of the preferred shares may convert to common shares at any time, at no cost, at a ratio of 1 preferred share into 1 common shares (subject to standard ratable anti-dilution adjustments). Upon any conversion (whether at the option of the Company or the holder), the holder is entitled to receive any accrued but unpaid dividends and also any make-whole amount (if applicable). See Note 8. Make-Whole Dividend Liability.

During the nine months ended September 30, 2015, the holder of the Series A Preferred Shares converted 0 preferred shares into 0 shares of common stock.

Except as otherwise required by law (or with respect to approval of certain actions), the Series A Preferred Stock shall have no voting rights. Upon any liquidation, dissolution or winding up of the Company, after payment or provision for payment of debts and other liabilities of the Company, the holders of Series A Preferred Stock shall be entitled to receive, pari passu with any distribution to the holders of common stock of the Company, an amount equal to \$8.00 per share of Series A Preferred Stock plus any accrued and unpaid dividends.

The warrants offered as part of the Securities Purchase Agreement have a three year term and require payment of an exercise price of \$9.00 per common share to the Company.

The Securities Purchase Agreement for the Series A Preferred Stock required that the registration statement, filed on August 16, 2013, must be declared effective within 90 days of the filing date. If the registration statement was not declared effective by this date, damages of 1% of the total investment amount, or \$60,000, plus interest, would have been owed by the Company to the Holder for each month until registration statement effectiveness is reached or the investment amount is repaid in full. The registration statement became effective on August 30, 2013, therefore any potential registration rights liability owed to the Holder by the Company was eliminated as of September 30, 2013.

**Series D and Series D-1 Preferred Stock**

Refer to Note 9. Convertible Note, Series D Preferred Stock, and Series D-1 Preferred stock for descriptions of Series D Preferred Stock, Series D-1 Preferred Stock, and Right Shares.

**NOTE 12. EQUITY PLANS AND SHARE-BASED COMPENSATION**

Share-Based Compensation: The Company measures share-based compensation cost at the grant date based on the fair value of the award and recognizes this cost as an expense over the grant recipients' requisite service periods for all awards made to employees, officers, directors and consultants.

The share-based compensation expense recognized in the Condensed Consolidated Statements of Operations was as follows:

|   | For the three months ended<br>September 30, |          | For the<br>nine months ended September 30, |           |
|---|---|----------|--|-----------|
|   | 2015  | 2014     | 2015                                       | 2014      |
| Share-based compensation cost included<br>in: |   |          |  |           |
| Research and development                      | \$63,094                                    | \$86,163 | \$217,300                                  | \$273,234 |
| Selling, general and administrative           | 169,317                                     | 121,909  | 472,611                                    | 360,162   |

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|                                     |           |           |           |           |
|-------------------------------------|-----------|-----------|-----------|-----------|
| Total share-based compensation cost | \$232,411 | \$208,072 | \$689,911 | \$633,396 |
|-------------------------------------|-----------|-----------|-----------|-----------|

The following table presents share-based compensation expense by type:

16

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Table of Contents

|                                     | For the three months ended |           | For the                                    |           |
|-------------------------------------|----------------------------|-----------|--|-----------|
|                                     | September 30,<br>2015      | 2014      | nine months ended<br>September 30,<br>2015 | 2014      |
| Type of Award:                      |                            |           |  |           |
| Stock Options                       | \$151,998                  | \$99,802  | \$438,995                                  | \$315,342 |
| Restricted Stock Units and Awards   | 80,413                     | 108,270   | 250,916                                    | 318,054   |
| Total share-based compensation cost | \$232,411                  | \$208,072 | \$689,911                                  | \$633,396 |

Stock Options: The Company recognized share-based compensation expense for stock options of \$439,000 to officers, directors and employees for the nine months ended September 30, 2015 related to stock option awards ultimately expected to vest. The weighted average estimated fair value of employee stock options granted for the nine months ended September 30, 2015 and 2014 was \$0.72 and \$5.00 per share, respectively. Fair value was calculated using the Black-Scholes Model with the following assumptions:

|                          | For the nine months ended |      |
|--------------------------|---------------------------|------|
|                          | September 30,<br>2015     | 2014 |
| Expected volatility      | 93%                       | 94%  |
| Risk free interest rate  | 2%                        | 2%   |
| Expected dividends       | —                         | —    |
| Expected life (in years) | 5.9                       | 6.0  |

Expected volatility is based on the historical volatility of the Company's stock. The risk-free rate of return is based on the yield of U.S. Treasury bonds with a maturity equal to the expected term of the award. Historical data is used to estimate forfeitures within the Company's valuation model. The Company's expected life of stock option awards is derived from historical experience and represents the period of time that awards are expected to be outstanding. As of September 30, 2015, total compensation cost related to non-vested stock options not yet recognized was \$549,000 which is expected to be recognized over a weighted average period of approximately 1.9 years. As of September 30, 2015, 1,136,896 shares were vested or expected to vest in the future at a weighted average exercise price of \$3.38. As of September 30, 2015, 3,722,267 shares remained available for future grants under the Option Plan.

Restricted Stock: In addition to the stock options discussed above, the Company recognized share-based compensation expense related to restricted stock grants of \$251,000 for the nine months ended September 30, 2015. The weighted average estimated fair value of restricted stock grants for the nine months ended September 30, 2015 and 2014 was \$1.11 and \$7.10 per share, respectively.

Total unrecognized share-based compensation expense from unvested restricted stock as of September 30, 2015 was \$85,000 which is expected to be recognized over a weighted average period of approximately 0.5 years. As of September 30, 2015, 99,258 shares were expected to vest in the future. As of September 30, 2015, 1,964,893 shares remained available for future grants under the Restricted Stock Plan.

**NOTE 13. RELATED PARTY TRANSACTIONS**

TFG Radiant owns approximately 8.2% of the Company's outstanding common stock as of September 30, 2015. In February 2012, the Company announced the appointment of Victor Lee as President and Chief Executive Officer. Mr. Lee had served on the Company's Board of Directors since November 2011 and is currently the managing director of Tertius Financial Group Pte Ltd, the joint venture partner with Radiant Group in TFG Radiant. In April 2012, the Company appointed the Chairman of TFG Radiant, Mr. Winston Xu (aka Xu Biao), as a member of its Board of Directors.

In June 2012, the Company entered into a supply agreement and a contract manufacturing agreement with TFG Radiant. Under the terms of the contract manufacturing agreement TFG Radiant was to oversee certain aspects of the contract manufacturing process related to the Company's EnerPlex™ line of consumer products. The Company compensated TFG Radiant for acting as general contractor in the contract manufacturing process. Under the supply agreement TFG Radiant was to distribute the Company's consumer products in Asia. In December 2012, the Company entered into a consulting agreement with TFG Radiant for product

Table of Contents

design, product development and manufacturing coordination activities provided by TFG Radiant to the Company in connection with the Company's line of consumer electronics products. This consulting agreement was terminated effective March 31, 2014.

During nine months ended September 30, 2015, the Company made no disbursements to TFG Radiant. During the nine months ended September 30, 2015 and September 30, 2014, the Company recognized revenue in the amount of \$0 and \$8,050, respectively, for products sold to TFG Radiant under the supply agreement. As of September 30, 2015 and December 31, 2014, the Company had \$0 and \$0, respectively, in receivables and deposits with TFG Radiant.

**NOTE 14. COMMITMENTS AND CONTINGENCIES**

On October 21, 2011, the Company was notified that a complaint claiming \$3.0 million for an investment banking fee (the "Lawsuit") was filed by Jefferies & Company, Inc. ("Jefferies") against the Company in New York State Supreme Court in the County of New York. In December 2010, Ascent and Jefferies entered into an engagement agreement (the "Fee Agreement") pursuant to which Jefferies was hired to act as the Company's financial advisor in relation to certain potential transactions. In addition, Jefferies claimed an award for attorney's fees and prejudgment interest in the approximate amount of \$1.2 million.

On April 16, 2014, the parties settled the lawsuit where the Company agreed to pay Jefferies a total of \$2.0 million in equal installments over 40 months. The Company has paid \$450,000 during the nine months ended September 30, 2015.

The Company records a liability in its financial statements for costs related to claims, including settlements and judgments, where the Company has assessed that a loss is probable and an amount can be reasonably estimated. The Company accrued \$1.7 million, the net present value of the \$2.0 million settlement, as of December 31, 2013. As of September 30, 2015, \$480,000 was accrued for the long-term portion of this settlement and \$529,000 was recorded as Accrued litigation settlement, current portion, in the Condensed Consolidated Balance Sheets.

On June 30, 2014, the Company entered into a Service Agreement with Swyft, Inc. to sell consumer products through automated retail stores (kiosks), provide online and mobile retail channels through a website and mobile application, and provide visual and text based advertising through both physical and digital channels. Under the terms of the original agreement, the Company will provide financing to Swyft in the form of a three year 8% convertible note to purchase seventy five (75) automated retail stores at \$4,500 per store, or a total of \$337,500, from ZoomSystems, the manufacturer of automated retail machines. On June 3, 2015, the Company and Swyft entered into an amendment to the agreement which modified the total number of automated retail stores to 38 stores, and modified the convertible note to \$171,000. The convertible loan financing for the thirty eight (38) automated retail stores of \$171,000 was provided by the Company during the third quarter of 2014. The Service Agreement also required that the Company pay a one-time project set-up fee of \$125,000 which was paid during the third quarter of 2014.

Effective July 26, 2015, the Company terminated the Services Agreement with Swyft, Inc. pursuant to the terms outlined in the Services Agreement dated June 30, 2014. Negotiations between Swyft and the Company are ongoing regarding a settlement amount to be paid to the Company. As of September 30, 2015 the Company has determined that \$99,000 of the convertible note is unrecoverable and has been expensed. Swyft has paid the Company \$4,000 to date, which results in an outstanding convertible note balance of \$68,000 as of September 30, 2015.

**NOTE 15. JOINT VENTURE**

On December 28, 2013, the Company entered into a definitive agreement for the establishment of a joint venture with the Government of the Municipal City of Suqian in Jiangsu Province, China ("Suqian"). The purpose of the joint venture was to build a factory located in Suqian to manufacture our proprietary photovoltaic modules. The Suqian joint venture project had progressed more slowly than originally anticipated due to a number of factors including short supply of needed technical skills in the Suqian area and other factors affecting the long term viability of the partnership. Accordingly, on August 5, 2015, Suqian and the Company mutually agreed to terminate the joint venture project.



The parties will liquidate the joint venture and distribute any available proceeds to the parties pro rata in accordance with the parties' contributions to the joint venture to date. The Company anticipates receiving approximately \$200,000 in cash upon liquidation of the joint venture and has recorded a receivable in the Prepaid expenses and other current assets line item in the Condensed Consolidated Balance Sheets as of September 30, 2015. To date, the Company's contributions to the joint venture have consisted of (i) \$320,000 in cash and (ii) certain technical and engineering consulting services. The Company does not anticipate having any material current or ongoing liabilities relating to the joint venture or its termination.

Table of Contents

NOTE 16. SUBSEQUENT EVENTS

Amendment to the Cancellation Agreement

As described in Note 9, on September 4, 2015, the Company entered into a Cancellation and Waiver Agreement with the Investor. Pursuant to the Cancellation Agreement, the Company agreed to retire all \$21.2 million outstanding Notes as of September 4, 2015. Pursuant to the terms of the Cancellation Agreement, on September 4, 2015 the Company retired approximately \$14.9 million aggregate principal amount of the Notes in exchange for a payment of approximately \$18.8 million. The remaining \$6.3 million (the Investor Payable) was scheduled to be paid in two installments; \$2.4 million on October 19, 2015 and \$3.9 million on December 4, 2015.

On October 8, 2015, the parties entered into Amendment No. 1 (the “Amendment”) to the Cancellation Agreement. The Amendment provides that:

¶The Company will not make the October 19, 2015 payment to retire \$2.4 million of the Investor Payable.

¶The December 4, 2015 payment has been modified. The Company now has agreed instead to make a payment of \$2.8 million on December 20, 2015 in order to retire a \$2.8 million of the Investor Payable.

An approximate \$3.5 million portion of the Notes have been reinstated. This \$3.5 million portion of the Notes shall remain outstanding with all its current and existing rights and terms including, without limitation, existing rights of conversion and redemption.

There will be no further issuances of the Company’s common stock in connection with payments on or conversions of the \$2.8 million portion of the Investor Payable so long as the Company does not default in making the required payment on December 20, 2015. If the Company does not make such payment, then the \$2.8 million uncanceled portion of the Notes would continue to remain outstanding with substantially all of its current existing terms and conditions.

Amendment to the Exchange Agreement

As described in Note 9, on July 22, 2015, the Company entered into an Exchange Agreement between the Company and the Investor. Pursuant to the Exchange Agreement, the November and February Warrants have been canceled, and the Company has issued to the Investor a right to receive a fixed number of shares of common stock of the Company in accordance with the terms of a Right to Receive Common Stock dated July 22, 2015 (the Right).

The Right obligated the Company to issue to the Investor (without the payment of any additional consideration) an aggregate of 8.3 million shares of Common Stock to the Investor. As of September 30, 2015, 1.5 million of such shares of Common Stock have been issued to the Investor. The remaining 6.8 million share portion of the Right had not been exercisable until November 22, 2015. In addition, the Investor had generally agreed to limit sales of the remaining 6.8 million shares to approximately 1.1 million shares during any 30-day period.

In the amendment to the Exchange Agreement, the parties agreed to eliminate such exercise and sale limitations. The remaining 6.8 million share portion of the Right is now currently exercisable and such shares will not be subject to such previous contractual restrictions on sales.

Series E Preferred Stock

On November 4, 2015 the Company entered into a securities purchase agreement with the Private Investor for the private placement of up to \$2,800,000 of the Company's newly designated Series E Convertible Preferred Stock.

On November 4, 2015, the Company sold and issued 1,000 shares of Series E Preferred Stock to the Private Investor in exchange for \$1 million. The Company will sell and issue an additional 500 shares of Series E Preferred Stock to the Private Investor in exchange for \$500,000 within one business day after the Company's filing of a registration statement covering the re-sale of the common stock underlying the Series E Preferred Stock with the Securities and Exchange Commission. The Company will sell and issue an additional 1,300 shares of Series E Preferred Stock to the Private Investor in exchange for \$1,300,000 upon the earlier of (i) December 19, 2015 or (ii) the effectiveness of the Company's registration statement covering the re-sale of the common stock underlying the Series E Preferred Stock.

## Table of Contents

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

Shares of the Series E Preferred Stock (including the amount of any accrued and unpaid dividends thereon) will be 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 volume weighted average prices of the Company's 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 the Company's common stock for the twenty consecutive trading day period prior to the conversion date.

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

The Company will issue 360,000 shares of common stock to the Private Investor as a commitment fee relating to the Series E Preferred Stock within one business day after the later of (i) the effectiveness of the Company's registration statement covering the re-sale of the commitment fee shares and the common stock underlying the Series E Preferred Stock and (ii) the date the Company's stockholders approve the potential issuance of the commitment shares in accordance with applicable Nasdaq listing rules. If the Company's stockholders do not vote to approve such issuances of the Company's shares in accordance with such rule, then the commitment shares will not be issued.

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, the Company 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.

## Committed Equity Line Purchase Agreement

On November 10, 2015, the Company and the Private Investor entered into a committed equity line purchase agreement, together with a related registration rights agreement (the "CEL RRA").

Under the terms and subject to the conditions of the CEL Purchase Agreement, at its option the Company has the right to sell to the Private Investor, and the Private Investor is obligated to purchase from the Company, up to \$32.2 million of the Company's common stock, subject to certain limitations, from time to time, over the 36-month period commencing on the date that a registration statement, which the Company has agreed to file with the SEC pursuant to the CEL RRA, is declared effective by the SEC.

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

From time to time, the Company may direct the Private Investor, at its sole discretion and subject to certain conditions, to purchase an amount (the “Purchase Amount”) of shares of common stock up to the lesser of (i) \$1,000,000 (calculated using the per share price described below) or (ii) 300% of the average daily trading volume of the Company’s common stock over the preceding ten trading day period. The per share purchase price for shares of common stock to be sold by the Company under the CEL Purchase Agreement shall be equal to 80% of the average of the two lowest VWAPs of the common stock for the ten consecutive trading day period prior to the purchase date.

The Company may not direct the Private Investor to purchase shares of common stock more frequently than once each ten business days. The Company’s sales of shares of common stock to the Private Investor under the CEL Purchase Agreement are limited to no more than the number of shares that would result in the beneficial ownership by the Private Investor and its affiliates, at any single point in time, of more than 4.99% of the Company’s then outstanding shares of common stock.

Table of Contents

As consideration for entering into the CEL Purchase Agreement, the Company has agreed to issue to the Private Investor 2,640,000 shares of common stock (the “Commitment Shares”). The Commitment Shares will be issued to the Private Investor in four increments commencing upon the later of (i) the date that a registration statement, which the Company has agreed to file with the SEC pursuant to the CEL RRA, is declared effective by the SEC and (ii) stockholder approval of the issuance of shares of common stock pursuant to the CEL Purchase Agreement in accordance with applicable Nasdaq listing rules.

Table of Contents

Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations

The following discussion of our financial condition and results of operations should be read in conjunction with our unaudited financial statements and the notes to those financial statements appearing elsewhere in this Form 10-Q. This discussion and analysis contains statements of a forward-looking nature relating to future events or our future financial performance. As a result of many factors, our actual results may differ materially from those anticipated in these forward-looking statements. These statements involve known and unknown risks, uncertainties and other factors that may cause our actual results, levels of activity, performance or achievements to be materially different from any future results, levels of activity, performance or achievements expressed or implied by these forward-looking statements.

Overview

We are a company formed to commercialize flexible photovoltaic modules using our proprietary technology. For the nine months ended September 30, 2015, we generated \$4,145,000 of revenue. Our revenue from product sales was \$3,853,000 and our revenue from government research and development contracts was \$292,000.

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 photovoltaic ("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. For markets that place a high premium on weight, such as consumer electronics, rooftop, defense, space, near space, and aeronautic markets, we believe our materials provide attractive increases in power-to-weight ratio, and we believe that our materials have higher power-to-area ratios and voltage-to-area ratios than competing flexible PV thin film technologies. We believe that our lightweight, flexible, and ultra-rugged technology is transformational in nature, and will provide us advantages in serving newly emerging specialty markets such as UAV's (unmanned aerial vehicles) as well as BAPV (building applied photovoltaic) and other applications where it is not possible to add solar panels to existing structures using traditional crystalline solar technology.

In 2012, we transitioned our business model adding a second business focused on developing PV integrated consumer electronics. In June of 2012, we launched our new line of consumer products under the EnerPlex™ brand, and introduced our first product, the Surfr™, a battery and a 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, yet provides supplemental charging when needed.

In December 2012, we launched the EnerPlex Kickr™ and EnerPlex Jumpr™ product series. The Kickr IV is an extremely portable, compact and durable solar charging device, approximately seven inches by seven inches when folded, and weighs less than half a pound. The Kickr IV provides 6.5 watts of regulated power that can help charge phones, digital cameras, and other small USB enabled devices. The Kickr IV is ideal for outdoor activities such as camping, hiking and mountain climbing as well as daily city use. To complement the Kickr IV, we also released the Jumpr™ series of portable power banks. The Jumpr™ series provides a compact power storage solution for those who need to take the power of the sun with them on the go. Throughout 2014, EnerPlex released multiple additions to the Jumpr line of products: including the Jumpr Stack 3, 6, and 9, innovative batteries equipped with tethered micro-USB and Apple Lightning cables and revolutionary Stack & Charge design, enabling batteries to be charged simultaneously when they

are placed on top of one another. Also released in 2014 were the Jumpr Slate series, products which push the boundaries of how thin batteries can be, the Jumpr Slate 10k, at less than 7mm thick was the thinnest lithium polymer battery available when it was released. The Jumpr Slate 5k and 5k Lightning each come with a tethered micro-USB and Lightning cable respectively; freeing consumers from worrying about toting extra cables with them while on the move.

At Outdoor Retailer 2014, EnerPlex debuted the Generatr Series. The Generatr 1200 and Generatr 100 are lithium-ion based large format batteries; lighter and smaller than competitors, the Generatr Series are targeted for consumers who require high-capacity, high-output batteries which remain ultra-portable when compared to the competition. Also debuted at Outdoor Retailer was the Commandr XII, a high output solar charger designed specifically to integrate with and charge the Generatr



## Table of Contents

series, allowing consumers to stay out longer without needing to charge their Generatr batteries from a traditional power source. In August 2014, the Kickr II+ and IV+ were also announced. These products represent another evolution in EnerPlex's line of solar products; integrated with a 500mAh battery the Kickr II+ and IV+ are able to provide a constant flow of power even when there are intermittent disruptions in sunlight.

Throughout 2013, we aggressively pursued 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 2014 EnerPlex products launched in multiple online and brick-and-mortar partners; including BestBuy.com, 300 premium Verizon Wireless stores via partner The Cellular Connection (TCC) and 25 Micro Center stores across 16 states. 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 EnerPlex launched the Generatr S100 and select other products exclusively with EVINE, and in the third quarter 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 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 the potential applications for our products are numerous.

During 2014 our partner in the United Kingdom, The Solar Cloth Company, won an award in the BIPV category for their use of Ascent Solar's modules in tensioned fabric applications; this application is an example of the high-volume opportunities which Ascent is positioned to take advantage of in the absence of other technologies which can match Ascent's industry leading durability and power-to-weight ratio. During the second quarter of 2015, Ascent Solar began the supply of solar panels for commercial production of the Silent Falcon Unmanned Aircraft. Building on the Company's experience in UAV's (unmanned aerial vehicles) the Company announced, in the third quarter of 2015, a partnership with Bye Aerospace to develop a solar powered aircraft for the improved investigation of Mars.

At the end of the first quarter of 2015, we announced that six EnerPlex products were awarded accolades as Red Dot Design Award winners, recognizing both the aesthetic as well as functional design of the Jumpr Quad, Jumpr Stack 3/6/9, the Generatr 100 and the Generatr 1200. During the third quarter of 2015 the Generatr 100 won a Best of Show Award at the CTIA Super Mobility show in Las Vegas. Additionally in the third quarter of 2015 the Milpak E successfully completed MIL-STD-810G (Military Standard) testing and has been selected as a finalist for the upcoming R&D 100 Awards in two product categories, including the new "Market Disruptor" category.

### Commercialization and Manufacturing Strategy

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 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. Our monolithic integration techniques enable us to form complete PV modules with less or no costly back end assembly of intercell connections. Traditional PV manufacturers assemble PV modules by bonding or soldering discrete PV cells together. This manufacturing step typically increases manufacturing costs and at times proves detrimental to the overall yield and reliability of the finished product. By

reducing or eliminating this added step using our proprietary monolithic integration techniques, we believe we can achieve cost savings in, and increase the reliability of, our PV modules. We believe 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.

## Table of Contents

Currently, we are producing consumer oriented products focusing on charging devices powered by or enhanced by our solar modules. Products in these markets are priced based on the overall value proposition rather than a commodity-style price per watt basis. We continue to develop new consumer products and we have adjusted the utilization of our equipment to meet our near term forecast sales. We plan to continue the development of our current PV technology to increase module efficiency, improve our manufacturing tooling and process capabilities and reduce manufacturing costs. We also plan to continue to take advantage of research and development contracts to fund a portion of this development.

On December 28, 2013, the Company entered into a definitive agreement for the establishment of a joint venture with the Government of the Municipal City of Suqian in Jiangsu Province, China ("Suqian"). The purpose of the joint venture was to build a factory located in Suqian to manufacture our proprietary photovoltaic modules. The Suqian joint venture project had progressed more slowly than originally anticipated due to a number of factors including short supply of needed technical skills in the Suqian area and other factors affecting the long term viability of the partnership. Accordingly, on August 5, 2015, Suqian and the Company mutually agreed to terminate the joint venture project.

The parties will liquidate the joint venture and distribute any available proceeds to the parties pro rata in accordance with the parties' contributions to the joint venture to date. The Company anticipates receiving approximately \$200,000 in cash upon liquidation of the joint venture. To date, the Company's contributions to the joint venture have consisted of (i) \$320,000 in cash and (ii) certain technical and engineering consulting services. The Company does not anticipate having any material current or ongoing liabilities relating to the joint venture or its termination.

### Related Party Activity

In February 2012, we announced the appointment of Victor Lee as President and Chief Executive Officer. Mr. Lee had served on our Board of Directors since November 2011 and is currently the managing director of Tertius Financial Group Pte Ltd, the joint venture partner with Radiant Group, in TFG Radiant. In April 2012, we appointed the Chairman of TFG Radiant, Mr. Winston Xu (aka Xu Biao), as a member of our Board of Directors. TFG Radiant owns approximately 8.2% of our outstanding common stock as of September 30, 2015.

The addition of TFG Radiant as a major shareholder has significantly improved our capabilities on a number of fronts. TFG Radiant's domicile in China provides us access to high quality, low cost contract manufacturing in Asia through expansion of TFG Radiant's existing relationships, developed through many years of successful operation in China. Integrating these suppliers into our supply chain enables us to bring our products to market faster. TFG Radiant also provides a global product perspective that significantly improves the product design activities of our Thornton, Colorado designers as they collaborate with designers in Asia. We continue to integrate and improve the design-to-manufacture process where we manufacture modules in our US plant, ship them to Asia for completion into finished goods at low cost and then ship products to all markets we will serve.

In June 2012, we entered into a supply agreement and a contract manufacturing agreement with TFG Radiant. Under the terms of the contract manufacturing agreement TFG Radiant was to oversee certain aspects of the contract manufacturing process related to our EnerPlex™ line of consumer products. We compensated TFG Radiant for acting as general contractor in the contract manufacturing process. Under the supply agreement TFG Radiant was to distribute our consumer products in Asia. In December 2012, we entered into a consulting agreement with TFG Radiant for product design, product development and manufacturing coordination activities provided by TFG Radiant to us in connection with our line of consumer electronics products. This consulting agreement was terminated during the first quarter of 2014.

During nine months ended September 30, 2015, the Company made no disbursements to TFG Radiant. During the nine months ended September 30, 2015 and September 30, 2014, the Company recognized revenue in the amount of \$0 and \$8,050, respectively, for products sold to TFG Radiant under the supply agreement. As of September 30, 2015 and December 31, 2014, the Company held \$0 and \$0, respectively, in receivables and deposits with TFG Radiant.

### Significant Trends, Uncertainties and Challenges

We believe the significant trends, uncertainties and challenges that directly or indirectly affect our financial performance and results of operations include:

- our ability to generate customer acceptance of and demand for our products;
- successful ramping up of commercial production on the equipment installed;
- our products are successfully and timely certified for use in our target markets;

## Table of Contents

- successful operating of 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;
- our ability to 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 successfully design, manufacture, market, distribute and sell our newly introduced line of consumer oriented products;
- effective management of the planned ramp up of our domestic and international operations;
- our ability to successfully develop and maintain strategic relationships with key partners, including OEMs, system integrators, distributors, retailers and e-commerce companies, who deal directly with end users in our target markets;
- our ability to maintain the listing of our common stock on the NASDAQ Capital Market;
- our ability to achieve projected operational performance and cost metrics;
- our ability to enter into commercially viable licensing, joint venture, or other commercial arrangements; and
- availability of raw materials.

### Critical Accounting Policies and Estimates

Critical accounting policies used in reporting our financial results are reviewed by management on a regular basis. The preparation of these financial statements requires us to make estimates and judgments that affect the reported amounts of assets, liabilities, revenues and expenses and related disclosure of contingent assets and liabilities. Processes used to develop these estimates are evaluated on an ongoing basis. Estimates are based on historical experience and various other assumptions that are believed to be reasonable for making judgments about the carrying value of assets and liabilities. Actual results may differ as outcomes from assumptions may change.

Our significant accounting policies were described in Note 3 to our audited financial statements included in our Annual Report on Form 10-K for the year ended December 31, 2014.

In June 2014, FASB issued ASU No. 2014-10, Development Stage Entities (Topic 915). Amongst other things, the amendments in this update removed the definition of development stage entity from Topic 915, thereby removing the distinction between development stage entities and other reporting entities from US GAAP. In addition, the amendments eliminate the requirements for development stage entities to (1) present inception-to-date information on the statements of income, cash flows and shareholders' equity; (2) label the financial statements as those of a development stage entity; (3) disclose a description of the development stage activities in which the entity is engaged; and (4) disclose in the first year in which the entity is no longer a development stage entity that in prior years it had been in the development stage. The standard is effective for the Company during the first quarter of 2015. Accordingly, the Company has adopted this standard for the three and nine months ended September 30, 2015 and has not disclosed inception-to-date information on the statements of income and cash flows and the Company has not labeled the financial statements as those of a development stage entity.

### Recent Accounting Pronouncements

See Note 3, "Summary of Significant Accounting Policies," in the Notes to Condensed Consolidated Financial Statements.

In May 2014, the FASB issued ASU No. 2014-09, Revenue from Contracts with Customers (Topic 606). The update will establish a comprehensive revenue recognition standard for virtually all industries in GAAP. ASU 2014-09 will change the amount and timing of revenue and cost recognition, implementation, disclosures and documentation. In August 2015, the FASB issued ASU No. 2015-14, Revenue from Contracts with Customers (Topic 606): Deferral of Effective Date. The amendments in ASU 2015-14 defer the effective date of ASU 2014-09 for all entities by one year. ASU 2014-09 is now effective for the Company in fiscal year 2018. The Company is researching whether the adoption of ASU 2014-09 will have a material effect on the Company's financial statements.



## Table of Contents

In August 2014, the FASB issued ASU No. 2014-15, Presentation of Financial Statements—Going Concern (Subtopic 205-40): Disclosure of Uncertainties about an Entity's Ability to Continue as a Going Concern. ASU 2014-15 requires management to evaluate, in connection with preparing financial statements for each annual and interim reporting period, whether there are conditions or events, considered in the aggregate, that raise substantial doubt about an entity's ability to continue as a going concern within one year after the date that the financial statements are issued and to provide certain disclosures if it concludes that substantial doubt exists. ASU 2014-15 is effective for all entities for the annual period ending after December 15, 2016, and for annual and interim periods thereafter, with early adoption permitted. We have not early adopted ASU 2014-15. The Company is researching whether the adoption of ASU 2014-15 will have a material effect on the Company's financial statements.

In July 2015, the FASB issued ASU No. 2015-11, Inventory (Topic 330): Simplifying the Measurement of Inventory, which states that inventory should be measured at the lower of cost and net realizable value. Net realizable value is defined as estimated selling price in the ordinary course of business, less reasonably predictable costs of completion, disposal and transportation. This ASU is effective within annual periods beginning on or after December 15, 2016, including interim periods within that reporting period. The Company is currently evaluating the impact, if any, that the adoption of this guidance will have on its financial statements.

## Results of Operations

The Company's activities from inception through December 31, 2014 consisted substantially of raising capital, research and development, establishment and development of the Company's production plant, product development and establishing sales channels for its line of consumer products which is sold under the EnerPlex™ brand. Revenues from inception through December 31, 2014 had been primarily generated from the Company's governmental research and development contracts until EnerPlex branded products began to sell in higher volumes in 2014. During this time period the Company's primary focus was not generating significant revenue, and thus cost of revenue was not considered a relevant number due to the development nature of the Company. As such, the majority of the Company's costs were considered to be research and development costs from inception through December 31, 2014. Beginning in 2015, due to the success of EnerPlex branded products, the Company's primary focus going forward is to build on the Company's past results and to significantly increase our revenues. As the Company's primary focus is increasing revenues by utilizing and expanding the sales channels established during prior years, the Company has determined that cost of revenue is a relevant number going forward. As such, the Company has included a Cost of revenues line item in the Condensed Consolidated Statements of Operations for the three and nine months ended September 30, 2015.

### Comparison of the Three Months Ended September 30, 2015 and 2014

Revenues. Our revenues were \$1,253,000 for the three months ended September 30, 2015 compared to \$1,137,000 for the three months ended September 30, 2014, an increase of \$116,000. Revenues for the three months ended September 30, 2015 include \$1,177,000 of product sales compared to \$1,035,000 for the three months ended September 30, 2014, an increase of \$142,000. The increase in product sales is a result of our expanded sales channel and new product offerings. Revenues earned on our government research and development contracts decreased by \$26,000 during the three months ended September 30, 2015 to \$76,000.

Cost of revenues. Our Cost of revenues for the three months ended September 30, 2015 was \$2,292,000, which is comprised of Materials and Freight of \$1,203,000, Direct Labor of \$237,000, and Overhead of \$852,000.

Management believes our factory is currently significantly under-utilized, and a substantial increase in revenue would result in marginal increases to Direct Labor and Overhead. As such management's focus going forward is to improve gross margin through increased sales and the full utilization of our factory. We are currently offering promotions and discounts in order to penetrate new markets. While these promotions and discounts have proved effective in building our brand and acquiring new customers, our gross margins have been negatively impacted. Long term we anticipate

substantial improvements in gross margins for product sales.

Research, development and manufacturing operations. Research, development and manufacturing operations costs were \$1,732,000 for the three months ended September 30, 2015 compared to \$5,077,000 for the three months ended September 30, 2014, a decrease of \$3,345,000. The primary reason for the decrease is due to the segregation and creation of a new line item in our statement of operations in the current quarter, Cost of revenues, which was \$2,292,000 for the three months ended September 30, 2015. Research, development and manufacturing operations costs include costs incurred for product development, pre-production and production activities in our manufacturing facility. Research, development and manufacturing operations costs also include costs related to technology development and governmental contracts. The following factors contributed to the decrease in research, development, and manufacturing operations expenses during the three months ended September 30, 2015:



Table of Contents

1. Materials and Equipment Related expenses decreased \$2,010,000 for the three months ended September 30, 2015 as compared to the three months ended September 30, 2014. The decrease is due to the fact that materials costs are included in the Cost of revenues line item for the three months ended September 30, 2015.

2. Personnel related expenses decreased \$499,000 as compared to the third quarter of 2014. The overall decrease in personnel related costs was primarily due to direct labor that is included in the Cost of revenues line item for the three months ended September 30, 2015.

3. Consulting and Contract Services decreased by \$228,000 from the comparable quarter in the prior year. The decrease in expense as compared to the third quarter of 2014 was primarily attributed to product design fees during the three months ended September 30, 2014 that were non-recurring in 2015.

4. Facility Related Expenses decreased \$362,000 during the three months ended September 30, 2015. The decrease is due to the fact that some overhead costs are included in the Cost of Revenue line item for the three months ended September 30, 2015.

Selling, general and administrative. Selling, general and administrative expenses were \$2,872,000 for the three months ended September 30, 2015 compared to \$3,937,000 for the three months ended September 30, 2014, an decrease of \$1,065,000. The following factors contributed to the decrease in selling, general, and administrative expenses during the three months ended September 30, 2015:

1. Personnel related costs increased \$391,000 during the three months ended September 30, 2015 as compared to the three months ended September 30, 2014. \$47,000 of this increase was related to non-cash stock compensation expense. The overall increase in personnel related costs was due to additional sales and management personnel hired subsequent to September 30, 2014 in order to facilitate our expected increase in sales.

2. Marketing and related expenses decreased \$500,000 during the three months ended September 30, 2015 as compared to the three months ended September 30, 2014. The decrease in Marketing and related expenses is due to the decrease in the number of retail kiosks as of September 30, 2015 as compared to September 30, 2014.

3. Consulting and contract services decreased \$537,000 during the three months ended September 30, 2015 as compared to the three months ended September 30, 2014. The decrease was due to decreased staffing costs associated with our retail kiosks. Management expects this expense to be lower during 2015 as compared to 2014 due to the lower number of retail kiosks in operation during 2015.

4. Legal expenses decreased \$281,000 during the three months ended September 30, 2015 as compared to the three months ended September 30, 2014. The primary reason for the decrease is due to a lower volume of financing transactions during the third quarter of 2015 as compared to the third quarter of 2014.

Other Income / (Expense), net. Other Income / (Expense) was \$921,000 net other income for the three months ended September 30, 2015 compared to \$2,865,000 net other expense for the three months ended September 30, 2014, an increase of \$3,786,000. The following factors contributed to the increase in other income/(expense) during the three months ended September 30, 2015:

1. Interest Expense increased \$3,441,000 as compared the third quarter of 2014. The increase is due to non-cash interest expense and amortization of debt discounts related to the Notes. The non-cash portion of interest expense for the three months ended September 30, 2015 was \$3,448,000.

2. Change in fair value of derivatives and gain/(loss) on extinguishment of liabilities, net fluctuated \$7,322,000 as compared to the third quarter of 2014, resulting in a net gain as of September 30, 2015. The fluctuation in this

non-cash item primarily relates to our extinguishments of our warrant liabilities and the Notes during the third quarter of 2015.

Net Loss. Our Net Loss was \$6,113,000 for the three months ended September 30, 2015 compared to a Net Loss of \$12,247,000 for the three months ended September 30, 2014, a decrease of \$6,134,000.

The decrease in Net Loss for the three months ended September 30, 2015 can be summarized in variances in significant account activity as follows:

Table of Contents

|  | Decrease (increase)<br>to Net Loss<br>For the Three<br>Months Ended<br>September 30, 2015<br>Compared to the Three<br>Months Ended<br>September 30, 2014 |
|--|--|
| Revenues   | 116,000  |
| Cost of Revenue  | (2,292,000 )   |
| Research, development and manufacturing operations   |  |
| Materials and Equipment Related Expenses   | 2,010,000  |
| Personnel Related Expenses   | 499,000  |
| Consulting and Contract Services   | 228,000  |
| Facility Related Expenses  | 362,000  |
| Other Miscellaneous Costs  | 247,000  |
| Selling, general and administrative expenses   |  |
| Personnel Related Expenses   | (391,000 )   |
| Marketing Related Expenses   | 500,000  |
| Legal Expenses   | 281,000  |
| Public Company Costs   | 173,000  |
| Consulting and Contract Services   | 537,000  |
| Other Miscellaneous Costs  | (35,000 )  |
| Depreciation and Amortization Expense  | 113,000  |
| Other Income / (Expense)   |  |
| Interest Expense   | (3,441,000 )   |
| Other Income/Expense   | (95,000 )  |
| Non-Cash Change in Fair Value of Derivatives and Gain/Loss on Extinguishment of Liabilities, net | 7,322,000  |
| Decrease to Net Loss   | \$6,134,000  |

## Comparison of the Nine Months Ended September 30, 2015 and 2014

Revenues. Our revenues were \$4,145,000 for the nine months ended September 30, 2015 compared to \$2,980,000 for the nine months ended September 30, 2014, an increase of \$1,165,000. Revenues for the nine months ended September 30, 2015 include \$3,853,000 of product sales compared to \$2,700,000 for the nine months ended September 30, 2014, an increase of \$1,153,000. The increase in product revenue is the result of our expanded sales channel and new product offerings. Revenues earned on our government research and development contracts increased by \$11,000 during the nine months ended September 30, 2015 to \$292,000.

Cost of revenues. Our Cost of revenues for the nine months ended September 30, 2015 was \$6,445,000, which is comprised of Materials and Freight of \$3,558,000, Direct Labor of \$748,000, and Overhead of \$2,139,000.

Management believes our factory is currently significantly under-utilized, and a substantial increase in revenue would result in marginal increases to Direct Labor and Overhead. As such management's focus going forward is to improve gross margin through increased sales and the full utilization of our factory. Direct materials related to product sales were \$2,618,000 for the nine months ended September 30, 2015, which is approximately 68% of product sales. We are currently offering promotions and discounts in order to penetrate new markets. While these promotions and discounts have proved effective in building our brand and acquiring new customers, our gross margins have been negatively impacted. Long term we anticipate substantial improvements in gross margins for product sales.

Research, development and manufacturing operations. Research, development and manufacturing operations costs were \$5,102,000 for the nine months ended September 30, 2015 compared to \$13,236,000 for the nine months ended September 30, 2014, a decrease of \$8,134,000. The primary reason for the decrease is due to the segregation and creation of a new line item in our statement of operations added during 2015, Cost of revenues, which was \$6,445,000 for the nine months ended September 30, 2015. Research, development and manufacturing operations costs include costs incurred for product development, pre-production and production activities in our manufacturing facility. Research, development and manufacturing operations costs also include

Table of Contents

costs related to technology development and governmental contracts. The following factors contributed to the decrease in research, development, and manufacturing operations expenses during the nine months ended September 30, 2015:

1. Materials and Equipment Related expenses decreased \$4,463,000 for the nine months ended September 30, 2015 as compared to the nine months ended September 30, 2014. The decrease is primarily due to the fact that materials costs are included in the Cost of revenues line item for the nine months ended September 30, 2015.

2. Personnel related expenses decreased \$1,599,000 as compared to the nine months ended September 30, 2015. The overall decrease in personnel related costs was primarily due to direct labor that is included in the Cost of revenues line item for the nine months ended September 30, 2015.

3. Consulting and Contract Services decreased by \$885,000 from the nine months ended September 30, 2014. The decrease in expense as compared to the first three quarters of 2014 was primarily attributed to the termination of the consulting services contract with TFGR, effective March 31, 2014 and product design fees during the nine months ended September 30, 2014 that were non-recurring in 2015.

4. Facility Related Expenses decreased \$947,000 during the nine months ended September 30, 2015. The decrease is due to the fact that some overhead costs are included in the Cost of Revenue line item for the nine months ended September 30, 2015.

Selling, general and administrative. Selling, general and administrative expenses were \$9,235,000 for the nine months ended September 30, 2015 compared to \$10,117,000 for the nine months ended September 30, 2014, a decrease of \$882,000. The following factors contributed to the decrease in selling, general, and administrative expenses during the nine months ended September 30, 2015:

1. Personnel related costs increased \$1,360,000 during the nine months ended September 30, 2015 as compared to the nine months ended September 30, 2014. \$112,000 of this increase was related to non-cash stock compensation expense. The overall increase in personnel related costs was due to additional sales and management personnel hired subsequent to September 30, 2014 in order to facilitate our expected increase in sales.

2. Marketing and related expenses decreased \$954,000 during the nine months ended September 30, 2015 as compared to the nine months ended September 30, 2014. During 2014, the Company implemented aggressive marketing and advertising campaigns in order to build our brand, which included television advertisements, print advertisements, and trade shows. During 2015, the Company did not incur the same level of advertising and marketing related expenses as 2014. Additionally, the decrease in the number of our retail kiosks operating during 2015 has contributed to the overall decrease in marketing and related expenses.

3. Consulting and contract services decreased \$1,006,000 during the nine months ended September 30, 2015 as compared to the nine months ended September 30, 2014. The decrease was due to decreased staffing costs associated with our retail kiosks. Management expects this expense to be lower during 2015 as compared to 2014 due to the lower number of retail kiosks in operation during 2015.

4. Legal expenses decreased \$356,000 during the nine months ended September 30, 2015 as compared to the nine months ended September 30, 2014. The decrease in legal expenses is due to litigation that occurred in 2014. During the first quarter of 2014 we incurred costs related to the Jefferies lawsuit and we have not incurred significant expenses related to any lawsuits during 2015.

Other Income / (Expense), net. Other Income / (Expense) was \$14,356,000 net expense for the nine months ended September 30, 2015 compared to \$6,583,000 net expense for the nine months ended September 30, 2014, an increase of \$7,773,000. The following factors contributed to the increase in other income/(expense) during the nine months

ended September 30, 2015:

1. Interest Expense increased \$18,401,000 as compared the nine months ended September 30, 2014. The increase is due to non-cash interest expense and amortization of debt discounts related to the Notes, Series D Preferred Stock, and Series D-1 Preferred Stock. The non-cash portion of interest expense for the nine months ended September 30, 2015 was \$18,398,000.

2. We incurred \$909,000 in non-cash interest expense as a result of the liability classified warrants associated with the Series D-1 Preferred Stock. This was a one-time non-recurring expense.

29

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Table of Contents

3. Change in fair value of derivatives and gain/(loss) on extinguishment of liabilities, net fluctuated \$11,299,000 as compared to the nine months ended September 30, 2014, resulting in a net gain as of September 30, 2015. The fluctuation in this non-cash item primarily relates to our extinguishments of our warrant liabilities and the Notes during the third quarter of 2015.

Net Loss. Our Net Loss was \$35,238,000 for the nine months ended September 30, 2015 compared to a Net Loss of \$31,437,000 for the nine months ended September 30, 2014, an increase of \$3,801,000.

The increase in Net Loss for the nine months ended September 30, 2015 can be summarized in variances in significant account activity as follows:

|  | Decrease (increase)<br>to Net Loss<br>For the Nine<br>Months Ended<br>September 30, 2015<br>Compared to the Nine<br>Months Ended<br>September 30, 2014 |   |
|--|--|---|
| Revenues   | 1,165,000  |   |
| Cost of Revenue  | (6,445,000)  | ) |
| Research, development and manufacturing operations   |  |   |
| Materials and Equipment Related Expenses   | 4,463,000  |   |
| Personnel Related Expenses   | 1,599,000  |   |
| Consulting and Contract Services   | 885,000  |   |
| Facility Related Expenses  | 947,000  |   |
| Other Miscellaneous Costs  | 239,000  |   |
| Selling, general and administrative expenses   |  |   |
| Personnel Related Expenses   | (1,360,000)  | ) |
| Marketing Related Expenses   | 954,000  |   |
| Legal Expenses   | 356,000  |   |
| Public Company Costs   | (3,000)  | ) |
| Consulting and Contract Services   | 1,006,000  |   |
| Other Miscellaneous Costs  | (71,000)   | ) |
| Depreciation and Amortization Expense  | 236,000  |   |
| Other Income / (Expense)   |  |   |
| Interest Expense   | (18,401,000)   | ) |
| Other Income/Expense   | 239,000  |   |
| Deemed (non-cash) Interest Expense on Warrant Liability  | (909,000)  | ) |
| Non-Cash Change in Fair Value of Derivatives and Gain/Loss on Extinguishment of Liabilities, net | 11,299,000   |   |
| Increase to Net Loss   | \$(3,801,000)  | ) |

## Liquidity and Capital Resources

As of September 30, 2015, we had approximately \$0.6 million in cash and cash equivalents

On February 19, 2015, the Company entered into a securities purchase agreement with one institutional and accredited investor. Pursuant to the terms of the purchase agreement, the Company sold to the investor (i) \$2,500,000 (2,500 shares) of Series D-1 Convertible Preferred Stock and (ii) warrants to purchase up to 541,126 shares of the Company's common stock, par value \$0.0001 per share. The closing of the sale of the Series D-1 Preferred Stock and the warrants occurred on February 25, 2015, and the Company received gross proceeds of \$2.5 million. Holders of the Series D-1 Preferred Stock will be entitled to receive dividends in the amount of 7% per annum, which are payable monthly in

shares of Common Stock or cash, at the Company's option.

On November 14, 2014, we entered into a securities purchase agreement (the "November 2014 Purchase Agreement") with one institutional and accredited investor (the "Investor"). Pursuant to the terms of the November 2014 Purchase Agreement, we sold to the Investor (i) \$3,000,000 (3,000 shares) of Series D Convertible Preferred Stock (the "Series D Preferred Stock"), (ii) \$32,000,000 original principal amount of senior secured convertible notes. On September 4, 2015, the

30

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Table of Contents

Company entered into a Cancellation and Waiver Agreement (the “Cancellation Agreement”), between the Company and the Investor. Pursuant to the Cancellation Agreement, the Company has agreed to retire all \$21.2 aggregate principal amount of its currently outstanding Notes. As of September 30, 2015, our outstanding liability to the Investor is \$6.2 million (the "Investor Payable").

On April 6, 2015, the Company entered into a securities purchase agreement with TFG Radiant for a private placement of a total of 1,000,000 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 1,000,000 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. After the closing, TFG Radiant owned approximately 13.8% of the Company’s Common Stock.

On September 4, 2015, we entered into a note purchase with two accredited investors (the “Lenders”). Pursuant to the new loan agreement, we issued to the Lenders \$1.5 million original principal amount of secured subordinated convertible notes on September 4, 2015, and an additional \$0.5 million original principal amount of secured subordinated convertible notes on September 28, 2015 (collectively, the “September 2015 Convertible Notes”).

We have continued PV 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. During the first half of 2015, we used \$17.5 million in cash for operations. Our primary significant long term obligation consists of a note payable of \$5.9 million to a financial institution secured by a mortgage on our headquarters and manufacturing building in Thornton, Colorado. Total payments of \$0.2 million, including principal and interest, will come due in the remainder of 2015. Additionally, the Company owes \$1.0 million as of September 30, 2015 related to a litigation settlement reached in April 2014, which is being paid in equal installments over 40 months which began April 2014.

Additional projected product revenues are not anticipated to result in a positive cash flow position for the year 2015 overall and as of September 30, 2015 the Company has negative working capital. As such, cash liquidity sufficient for the year ending December 31, 2015 will require additional financing. Subsequent to September 30, 2015, the Company entered into a securities purchase agreement with a private investor (the "Private Investor") for the private placement of up to \$2,800,000 of the Company’s newly designated Series E Convertible Preferred Stock (“Series E Preferred Stock”). Additionally on November 10, 2015, the Company and the Private Investor entered into a committed equity line purchase agreement (the “CEL Purchase Agreement”). Under the terms of the CEL Purchase Agreement, at its option the Company has the right to sell to the Private Investor, and the Private Investor is obligated to purchase from the Company, up to \$32.2 million of the Company’s common stock, subject to certain limitations.

We continue to accelerate sales and marketing efforts related to our consumer products strategy through increased hiring and expansion of our sales channels. We have begun activities related to securing additional financing through strategic or financial investors, but there is no assurance we will be able to raise additional 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.

Statements of Cash Flows Comparison of the Nine Months Ended September 30, 2015 and 2014

For the nine months ended September 30, 2015, our cash used in operations was \$17.5 million compared to \$20.4 million for the nine months ended September 30, 2014, a decrease of \$2.9 million. The decrease is primarily due to the increase in sales and subsequent collection of accounts receivable, and a decrease in prepaid expenses during the nine months ended September 30, 2015. For the nine months ended September 30, 2015, our cash used in investing activities was \$0.3 million as compared to \$0.6 million at September 30, 2014. During the nine months ended September 30, 2015, negative operating cash flows of \$17.5 million were funded through \$2.5 million of funding received from issuances of preferred stock, \$2 million of funding received from issuances of common stock to TFG Radiant, \$9.5 million released from the control account, \$2 million of funding received from the 2015 Convertible

Notes, and the use of cash and cash equivalents held at December 31, 2014.

**Contractual Obligations**

The following table presents our contractual obligations as of September 30, 2015. Our long-term debt obligation is related to our building loan reflecting both principal and interest. Our purchase obligations include orders for equipment, inventory and operating expenses.

31

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Table of Contents

| Contractual Obligations     | Total    | Payments Due by Year (in thousands) |           |           |                   |
|-----------------------------|----------|-------------------------------------|-----------|-----------|-------------------|
|                             |          | Less Than 1 Year                    | 1-3 Years | 3-5 Years | More Than 5 Years |
| Long-term debt obligations  | \$9,711  | \$1,351                             | \$1,887   | \$1,387   | \$5,086           |
| Operating lease obligations | 53       | 53                                  | —         | —         | —                 |
| Purchase obligations        | 2,696    | 2,696                               | —         | —         | —                 |
| Total                       | \$12,460 | \$4,100                             | \$1,887   | \$1,387   | \$5,086           |

## Off Balance Sheet Transactions

As of September 30, 2015, we did not have any off balance sheet arrangements as defined in Item 303(a)(4)(ii) of SEC Regulation S-K.

## Item 3. Quantitative and Qualitative Disclosures About Market Risk

## Foreign Currency Exchange Risk

Historically, we have purchased manufacturing equipment internationally, which exposes us to foreign currency risk. From time to time we enter into foreign currency fair value hedges utilizing forward contracts designed to match scheduled contractual payments to equipment suppliers. Our objective is to fix the dollar amount of our foreign currency denominated manufacturing equipment purchases at the time of order. Although our hedging activity is designed to fix the dollar amount to be expended, the asset purchased is recorded at the spot foreign currency rate in effect as of the date of the payment to the supplier. The difference between the spot rate and the forward rate has been reported as gain or loss on forward contract. 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. All forward contracts entered into by us have been settled on the contract settlement dates, the last of which was settled in December 2009.

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 may operate, make sales and buy materials. As a result, we are subject to currency translation risk. Further, changes in exchange rates between foreign currencies and the U.S. Dollar could affect our future net sales and cost of sales and could result in exchange losses.

## Interest Rate Risk

Our exposure to market risks for changes in interest rates relates primarily to our cash equivalents. As of September 30, 2015, our cash equivalents consisted only of federally insured operating and savings accounts held with financial institutions. From time to time we hold money market funds, investments in U.S. government securities and high quality corporate securities. The primary objective of our investment activities is to preserve principal and provide liquidity on demand, while at the same time maximizing the income we receive from our investments without significantly increasing risk. The direct risk to us associated with fluctuating interest rates is limited to our investment portfolio and we do not believe that a change in interest rates will have a significant impact on our financial position, results of operations or cash flows.

## Credit Risk

From time to time we hold certain financial and derivative instruments that potentially subject us to credit risk. These consist primarily of cash, cash equivalents, restricted cash, investments and foreign currency option contracts. We are exposed to credit losses in the event of nonperformance by the counter parties to our financial and derivative instruments. We place cash, cash equivalents, investments and forward foreign currency option contracts with various high-quality financial institutions, and exposure is limited at any one institution. We continuously evaluate the credit standing of our counter party financial institutions.

## Item 4. Controls and Procedures

## Evaluation of Disclosure Controls and Procedures

We maintain disclosure controls and procedures that are designed to ensure that information required to be disclosed in our reports filed or submitted under the Securities Exchange Act of 1934, as amended (the "Exchange Act") is recorded, processed, summarized and reported within the time periods specified in Securities and Exchange

Commission (SEC) rules and forms. Our management, including our Chief Executive Officer and interim Principal Financial Officer, conducted an evaluation required by Rules 13a-15 and 15d-15 under the Exchange Act of the effectiveness of our disclosure controls and procedures as defined in Rules 13a-15 and 15d-15 under the Exchange Act as of September 30, 2015. Based on this evaluation,

32

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Table of Contents

our Chief Executive Officer and interim Principal Financial Officer concluded that as of September 30, 2015, our disclosure controls and procedures were effective.

Changes in Internal Control over Disclosure and Reporting

There was no change in our internal control over financial reporting that occurred during the quarterly period ended September 30, 2015 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

Table of Contents

PART II. OTHER INFORMATION

Item 1. Legal Proceedings

On October 21, 2011, we were notified that a complaint (the "Lawsuit") was filed by Jefferies & Company, Inc. ("Jefferies") against us in state court located in the County and State of New York.

In December 2010, we and Jefferies entered into an engagement agreement (the "Fee Agreement") pursuant to which Jefferies was hired to act as our financial advisor in relation to certain potential transactions. In the Lawsuit, Jefferies claims it is entitled to receive an investment banking fee of \$3.0 million (plus expense reimbursement of approximately \$49,000) under the Fee Agreement in connection with the August 2011 investment and strategic alliance transaction (the "Financing") between us and TFG Radiant. In addition, should it prevail at trial, Jefferies would be able to claim an award for attorney's fees and prejudgment interest in the approximate amount of \$1.2 million. On April 16, 2014, the parties settled the lawsuit where the Company agreed to pay Jefferies a total of \$2.0 million in equal installments over 40 months. The Company has paid \$450,000 during the nine months ended September 30, 2015.

The Company records a liability in its financial statements for costs related to claims, including settlements and judgments, where the Company has assessed that a loss is probable and an amount can be reasonably estimated. The Company accrued \$1.7 million, the net present value of the \$2.0 million settlement, as of December 31, 2013. As of September 30, 2015, \$480,000 was accrued for the long-term portion of this settlement and \$529,000 was recorded as Accrued litigation settlement, current portion, in the Balance Sheets.

Item 1A. Risk Factors

In addition to the other information set forth in this report, you should carefully consider the factors discussed in the updated risk factors in our Annual Report on Form 10-K filed on March 18, 2015, which could materially affect our business, financial condition or future results. The risks described in our Annual Report on Form 10-K filed on March 18, 2015 are not the only risks facing our company. Additional risks and uncertainties not currently known to us or that we currently deem to be immaterial also may materially adversely affect our business, financial condition or future results.

Item 2. Unregistered Sales of Equity Securities and Use of Proceeds  
Not required.

Item 3. Defaults Upon Senior Securities  
Not applicable.

Item 4. Mine Safety Disclosures  
Not applicable.

Item 5. Other Information  
Not applicable.

Item 6. Exhibits

A list of exhibits is found on page 37 of this report.

Table of Contents

ASCENT SOLAR TECHNOLOGIES, INC.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized on the 13th day of November, 2015.

ASCENT SOLAR TECHNOLOGIES, INC.

By: /S/ VICTOR LEE  
Lee Kong Hian (aka Victor Lee)  
President and Chief Executive Officer  
(Principal Executive Officer, acting Principal Financial  
Officer, and Authorized Signatory)



Table of Contents

ASCENT SOLAR TECHNOLOGIES, INC.  
EXHIBIT INDEX

| Exhibit No. | Description   |
|-------------|---|
| 3.1         | Certificate of Designations of Preferences, Rights and Limitations of Series E 7% Preferred Stock (filed as Exhibit 3.1 to our Current Report on Form 8-K November 10, 2015). |
| 10.1        | Amendment and Exchange Agreement dated July 22, 2015 (filed as Exhibit 10.1 to our Current Report on Form 8-K July 23, 2015).   |
| 10.2        | Right to Receive Common Stock dated July 22, 2015 (filed as Exhibit 10.2 to our Current Report on Form 8-K July 23, 2015).  |
| 10.3        | Cancellation and Waiver Agreement dated September 4, 2015 (filed as Exhibit 10.1 to our Current Report on Form 8-K September 8, 2015).  |
| 10.4        | Note Purchase Agreement dated September 4, 2015 (filed as Exhibit 10.2 to our Current Report on Form 8-K September 8, 2015).  |
| 10.5        | Security Agreement dated September 4, 2015 (filed as Exhibit 10.3 to our Current Report on Form 8-K September 8, 2015).   |
| 10.6        | Secured Convertible Promissory Note for \$1,000,000 dated September 4, 2015 (filed as Exhibit 10.4 to our Current Report on Form 8-K September 8, 2015).                      |
| 10.7        | Secured Convertible Promissory Note for \$500,000 dated September 4, 2015 (filed as Exhibit 10.5 to our Current Report on Form 8-K September 8, 2015).                        |
| 10.8        | Joinder to Note Purchase Agreement dated September 28, 2015 (filed as Exhibit 10.1 to our Current Report on Form 8-K September 28, 2015).                                     |
| 10.9        | Secured Convertible Promissory Note for \$500,000 dated September 28, 2015 (filed as Exhibit 10.2 to our Current Report on Form 8-K September 28, 2015).                      |
| 10.10       | Amendment No. 1 dated October 8, 2015 to Cancellation and Waiver Agreement dated September 4, 2015 (filed as Exhibit 10.1 to our Current Report on Form 8-K October 9, 2015). |
| 10.11       | Series E Securities Purchase Agreement dated November 4, 2015 (filed as Exhibit 10.1 to our Current Report on Form 8-K November 10, 2015).                                    |
| 10.12       | Series E Registration Rights Agreement dated November 4, 2015 (filed as Exhibit 10.2 to our Current Report on Form 8-K November 10, 2015).                                    |
| 10.13       | Equity Line Purchase Agreement dated November 10, 2015 (filed as Exhibit 10.3 to our Current Report on Form 8-K November 10, 2015).   |
| 10.14       | Equity Line Registration Rights Agreement dated November 10, 2015 (filed as Exhibit 10.4 to our Current Report on Form 8-K November 10, 2015).                                |

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- 31.1\* Chief Executive Officer Certification pursuant to section 302 of the Sarbanes-Oxley Act of 2002
- 31.2\* Chief Financial Officer Certification pursuant to section 302 of the Sarbanes-Oxley Act of 2002
- 32.1\* Chief Executive Officer Certification pursuant to section 906 of the Sarbanes-Oxley Act of 2002
- 32.2\* Chief Financial Officer Certification pursuant to section 906 of the Sarbanes-Oxley Act of 2002

Table of Contents

| Exhibit No. | Description  |
|-------------|--|
| 101.INS     | XBRL Instance Document                                 |
| 101.SCH     | XBRL Taxonomy Extension Schema Document                |
| 101.CAL     | XBRL Taxonomy Extension Calculation Linkbase Document  |
| 101.DEF     | XBRL Taxonomy Extension Definition Linkbase Document   |
| 101.LAB     | XBRL Taxonomy Extension Label Linkbase Document        |
| 101.PRE     | XBRL Taxonomy Extension Presentation Linkbase Document |

\* Filed herewith.