Ascent Solar Technologies, Inc.
Form 10-K/A
April 29, 2019
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UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM 10-K/A
(Amendment No. 1)

(Mark One)
x ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
For the fiscal year ended December 31, 2018
or
o 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

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

Delaware	20-3672603
(State or other jurisdiction of incorporation or organization)	(I.R.S. Employer 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
Securities registered pursuant to Section 12(b) of the Act:

Title of Each Class	Name of Each Exchange on Which Registered
Common Stock, $0.0001 par value per share	The OTC Market

Securities registered pursuant to Section 12(g) of the Act:
None
Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes o No x
Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or 15(d) of the Exchange Act. Yes o No x

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Indicate by check mark whether the registrant (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 x No o

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). x Yes o No

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K (§ 229.405 of this chapter) is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K. Yes o No x

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

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.o

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

As of June 30, 2018, the last business day of the registrant's most recently completed second fiscal quarter, the aggregate market value of the registrant's common stock held by non-affiliates was approximately $3.2 million based upon the last reported sale price of the registrant's common stock on that dates as reported by OTC Market.

As of April 26, 2019, there were 441,182,478 shares of our common stock issued and outstanding.

ASCENT SOLAR TECHNOLOGIES, INC.
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EXPLANATORY NOTE

Ascent Solar Technologies, Inc. filed its Annual Report on Form 10-K for the fiscal year ended December 31, 2018 (the "Original Form 10-K"), with the U.S. Securities and Exchange Commission (the "SEC") on April 16, 2019. The Company is filing this Amendment No. 1 to the Original Form 10-K (this "Form 10-K/A") solely for the purpose of including in Part III, the information that was to be incorporated by reference from the Company's definitive proxy statement for its 2019 Annual Meeting of Stockholders. This Form 10-K/A hereby amends and restates in their entirety Items 10 through 14 of Part III of the Original Form 10-K.
Pursuant to Rule 12b-15 under the Securities Exchange Act of 1934, as amended (the "Exchange Act"), this Form 10-K/A also contains two new certifications pursuant to Section 302 of the Sarbanes-Oxley Act of 2002. Accordingly, Item 15 of Part IV has also been amended and restated in its entirety to include the currently dated certifications as exhibits.

No attempt has been made in this Form 10-K/A to modify or update the other disclosures presented in the Original Form 10-K, including, without limitation, the financial statements. This Form 10-K/A does not reflect events occurring after the filing of the Original Form 10-K or modify or update the disclosures in the Original Form 10-K, except as set forth in this Form 10-K/A, and should be read in conjunction with the Original Form 10-K and the Company's other filings with the SEC.

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PART III

Item 10. Directors, Executive Officers and Corporate Governance

EXECUTIVE OFFICERS AND DIRECTORS

Our executive officers, continuing directors and director nominees, their ages and positions with us as of April 26, 2019, are as follows:

Name	Age	Position
Victor Lee	51	President and Chief Executive Officer, Director
Amit Kumar, Ph.D.	54	Chairman of the Board, Director
Kim J. Huntley	64	Director
G. Thomas Marsh	75	Director

Victor Lee (Lee Kong Hian) has been the President and Chief Executive Officer of Ascent Solar Technologies Inc. since February 1, 2012 and as a member of our Board since November 2011. Mr. Lee is the managing director of Tertius Financial Group Pte Ltd, a boutique corporate advisory and private investment firm he founded in February 2009. He brings more than 17 years of experience in corporate banking, real estate finance and investment management, and corporate advisory services at leading worldwide financial institutions. Mr. Lee began his career at Citibank N.A., in 1993, handling small- and medium-sized corporate finance and progressed to a vice president position in the International Personal Banking Division. In 1999 he moved to Deutsche Bank AG as Vice President and in 2004 was promoted to managing director Singapore Market Head in the Private Wealth Management Division, where he was responsible for management of approximately $1 Billion in assets. From 2007 until 2009, he was with Morgan Stanley Private Wealth Management, most recently as executive director and head of Singapore/Malaysia markets. Mr. Lee holds a Bachelor's degree in Accounting from the University of Wisconsin and a Master's in Wealth Management from the Singapore Management University.

Amit Kumar, Ph.D. has served on our Board of Directors since June 2007 and as Chairman since January 2011. Dr. Kumar is currently Chairman, President and CEO of ITUS Corporation (NASDAQ:ITUS), a publicly held biotechnology company. From December 2010 to June 2015, Dr. Kumar was President and CEO of Geo Fossil Fuels, a privately held energy company. From September 2001 until June 30, 2010, Dr. Kumar was President and CEO of CombiMatrix Corporation (NASDAQ: CBMX). Previously, Dr. Kumar was Vice President of Life Sciences of Acacia Research Corp (NASDAQ: ACTG). From January 1999 to February 2000, Dr. Kumar was the founding President and Chief Executive Officer of Signature BioSciences, Inc., a life science company developing technology for advanced research in genomics, proteomics and drug discovery. From January 1998 to December 1999, Dr. Kumar was an Entrepreneur in Residence with Oak Investment Partners, a venture capital firm. From October 1996 to January 1998, Dr. Kumar was a Senior Manager at IDEXX Laboratories, Inc., a biotechnology company. From October 1993 to September 1996, Dr. Kumar was Head of Research & Development for Idetek Corporation, which was later acquired by IDEXX Laboratories, Inc. Dr. Kumar received his B.S. degree in chemistry from Occidental College. After joint studies at Stanford University and the California Institute of Technology, he received his Ph.D. in Chemistry from Caltech in 1991. He also completed a post-doctoral fellowship at Harvard University in 1993. Dr. Kumar has authored and co-authored over 40 peer-reviewed publications and holds a dozen patents. Dr. Kumar brings significant leadership experience as well as experience in photovoltaic research including work on energy conversion using cells made from silicon (single crystal, polycrystalline, and amorphous), gallium arsenide, indium phosphide, metal oxides and other materials. Dr. Kumar is a member of the Board of Directors of CopyTele, Inc. (OTC:COPY) and Aeolus Pharmaceuticals (OTC: AOLS).

Kim J. Huntley has served on our Board of Directors since June 2010. Mr. Huntley served in the Defense Logistics Agency (DLA) of the U.S. Department of Defense (DOD) for more than 32 years in positions of increasing responsibility. Most recently,

from July 2008 until his retirement in January 2010, Mr. Huntley served as Director of the Defense Energy Support Center (DESC) in Fort Belvoir, Virginia. The DESC operates as part of the DLA and is responsible for providing energy solutions to the DOD and federal civilian agencies. As Director of the DESC, Mr. Huntley was the principal executive officer in charge of approximately 1,100 employees worldwide and over $25 billion in annual appropriations involving energy infrastructure and products. From March 2006 and immediately prior to becoming Director of the DESC, Mr. Huntley served in leadership roles involving supply chain management, including Deputy Commander for the Defense Supply Center in Richmond, Virginia and Columbus, Ohio, and as Executive Director of Customer Support and Readiness. From December 2003 to March 2006, Mr. Huntley served as Chief of the Customer Support Office in Fort Belvoir, Virginia. Mr. Huntley chaired the Inter Agency Working Group for Alternative Fuels and Renewable Energy from January 2009 to January 2010. The Group included senior energy representatives from DOD, DOE, EPA, and other major Federal Agencies. Mr. Huntley holds a B.A. degree in Economics from Golden Gate University and attended post-graduate courses in economics at California State University, Hayward.
Mr. Huntley brings extensive supply chain, budget and defense industry experience to our Board.

G. Thomas Marsh has served on our Board of Directors since June 2010. In June 2006, Mr. Marsh retired as Executive Vice President of Lockheed Martin Space Systems Company, a subsidiary of Lockheed Martin Corporation. Lockheed Martin Space Systems designs, develops, tests, manufactures and operates advanced-technology systems, including human space flight systems, satellites and instruments, space observatories and interplanetary spacecraft, laser radar, fleet ballistic missiles, and missile defense systems. From 1969 until its merger in 1995 to form Lockheed Martin Corporation, Mr. Marsh worked at Martin Marietta Corporation, most recently in the position of President, Manned Space Systems. After 1995, he held positions of increasing responsibility within Lockheed Martin Corporation, including serving as President and General Manager of the Missiles and Space Operations business unit from 2002 until his appointment as Executive Vice President of Lockheed Martin Space Systems in 2003. Mr. Marsh was responsible for business operations and the activities of approximately 18,000 Space Systems employees. Mr. Marsh holds a B.S. degree in Electrical Engineering from the University of New Mexico, an M.B.A. from the University of Colorado, and attended the Massachusetts Institute of Technology’s Sloan School of Management. Mr. Marsh brings a background in executive management and deep experience with the space and defense industries to our Board.

CORPORATE GOVERNANCE

Overview

Our Bylaws provide that the size of our Board of Directors is to be determined from time to time by resolution of the Board of Directors, but shall consist of at least two and no more than nine members. Our Board of Directors currently consists of four members. The Board has determined that the following directors are “independent” as required by the listing standards of the OTC Market and by our corporate governance guidelines: Dr. Kumar, Mr. Huntley and Mr. Marsh.

Our Certificate of Incorporation provides that the Board of Directors will be divided into three classes. Our Class 1 director is Dr. Amit Kumar. Our Class 2 directors are Kim J. Huntley and G. Thomas Marsh. Our Class 3 director is Victor Lee. The terms of Mr Huntley and Mr. Marsh will expire at the Company's 2019 annual stockholder meeting. Upon the recommendation of the Nominating and Governance Committee, the Board has nominated Mr. Huntley and Mr. Marsh as the Class 2 director nominees.

Board Leadership Structure and Role in Risk Oversight

We currently separate the roles of Chairman of the Board and Chief Executive Officer. We believe that Dr. Kumar possesses the strategic, technical and industry knowledge and expertise to serve as our Chairman. As President and Chief Executive Officer, Mr. Lee is responsible for day-to-day oversight of our operations and personnel. Notwithstanding the foregoing, our Board does not have a formal policy regarding separation of the Chairman and Chief Executive Officer roles, and the Board may in the future decide to implement such a policy if it deems it in the best interests of us and our stockholders. The Board does not have a lead independent director.

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Risk is inherent with every business, and how well a business manages risk can ultimately determine its success. We face a number of risks, including credit risk, interest rate risk, liquidity risk, operational risk, strategic risk and reputation risk. Management is responsible for the day-to-day management of risks we face, while the Board, as a whole and through its committees, has responsibility for the oversight of risk management. In its risk oversight role, the Board of Directors has the responsibility to satisfy itself that the risk management processes designed and implemented by management are adequate and functioning as designed. To do this, the Chairman of the Board meets regularly with management to discuss strategy and the risks we face. In addition, the Audit Committee regularly monitors our enterprise risk, including financial risks, through reports from management. Senior management attends the Board meetings and is available to address any questions or concerns raised by the Board on risk management and any other matters. The Chairman of the Board and independent members of the Board work together to provide strong, independent oversight of our management and affairs through the Board's standing committees and, when necessary, executive sessions of the independent directors.

Committees of the Board of Directors

Our Board has three standing committees: an Audit Committee, a Compensation Committee, and a Nominating and Governance Committee. Each committee operates pursuant to a charter. The charters of the Audit Committee, the Compensation Committee, and the Nominating and Governance Committee can be found on our website www.ascentsolar.com.

Audit Committee. Our Audit Committee oversees our accounting and financial reporting processes, internal systems of accounting and financial controls, relationships with independent auditors, and audits of financial statements. Specific responsibilities include the following:

- selecting, hiring and terminating our independent auditors;
- evaluating the qualifications, independence and performance of our independent auditors;
- approving the audit and non-audit services to be performed by our independent auditors;
- reviewing the design, implementation, adequacy and effectiveness of our internal controls and critical accounting policies;
- reviewing and monitoring the enterprise risk management process;
- overseeing and monitoring the integrity of our financial statements and our compliance with legal and regulatory requirements as they relate to financial statements or accounting matters;
- reviewing, with management and our independent auditors, any earnings announcements and other public announcements regarding our results of operations; and
- preparing the report that the SEC requires in our annual proxy statement.

Our Audit Committee is comprised of Mr. Huntley, Dr. Kumar and Mr. Marsh. Mr. Huntley serves as Chairman of the Audit Committee. The Board has determined that all members of the Audit Committee are independent under the rules of the OTC Market, and that Mr. Huntley qualifies as an "audit committee financial expert," as defined by the rules of the SEC.

Compensation Committee. Our Compensation Committee assists our Board in determining the development plans and compensation of our officers, directors and employees. Specific responsibilities include the following:

- approving the compensation and benefits of our executive officers;
- reviewing the performance objectives and actual performance of our officers; and
- administering our stock option and other equity compensation plans.

The Compensation Committee reviews all components of compensation including base salary, bonus, equity compensation, benefits and other perquisites. In addition to reviewing competitive market values, the Compensation Committee also examines the total compensation mix, pay-for-performance relationship and how all elements, in the aggregate, comprise the executives' total compensation package. The CEO makes recommendations to the Compensation Committee from time to time regarding the appropriate mix and level of compensation for other officers. Those recommendations consider the objectives of our compensation

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philosophy and the range of compensation programs authorized by the Compensation Committee. The Compensation Committee may determine director compensation by reviewing peer group data. Although the Compensation Committee has the authority to retain outside third parties, it does not currently utilize any outside consultants. The Compensation Committee may delegate certain of its responsibilities, as it deems appropriate, to other committees or officers.

Our Compensation Committee is comprised of Mr. Marsh, Mr. Huntley and Dr. Kumar. Mr. Marsh serves as Chairman of the Compensation Committee. Our Board has determined that all members of the Compensation Committee are independent under the rules of the OTC Market.

Nominating and Governance Committee. Our Nominating and Governance Committee assists our Board by identifying and recommending individuals qualified to become members of our Board, reviewing correspondence from our stockholders, and establishing, evaluating and overseeing our corporate governance guidelines. Specific responsibilities include the following:

- evaluating the composition, size and governance of our Board and its committees and making recommendations regarding future planning and the appointment of directors to our committees;
- establishing a policy for considering stockholder nominees for election to our Board; and
- evaluating and recommending candidates for election to our Board.

Our Nominating and Governance Committee is comprised of Dr. Kumar, Mr. Huntley, and Mr. Marsh. Dr. Kumar serves as Chairman of our Nominating and Governance Committee. Our Board has determined that all members of the Nominating and Governance Committee are independent under the rules of OTC Market.

When considering potential director candidates for nomination or election, the following characteristics are considered in accordance with our Nominating and Governance Committee Charter:

- high standard of personal and professional ethics, integrity and values;
- training, experience and ability at making and overseeing policy in business, government and/or education sectors;
- willingness and ability to keep an open mind when considering matters affecting interests of us and our constituents;
- willingness and ability to devote the time and effort required to effectively fulfill the duties and responsibilities related to the Board and its committees;
- willingness and ability to serve on the Board for multiple terms, if nominated and elected, to enable development of a deeper understanding of our business affairs;
- willingness not to engage in activities or interests that may create a conflict of interest with a director’s responsibilities and duties to us and our constituents; and
- willingness to act in the best interests of us and our constituents, and objectively assess Board, committee and management performances.

In addition, in order to maintain an effective mix of skills and backgrounds among the members of our Board, the following characteristics also may be considered when filling vacancies or identifying candidates:

- diversity (e.g., age, geography, professional, other);
- professional experience;
- industry knowledge (e.g., relevant industry or trade association participation);
- skills and expertise (e.g., accounting or financial);
- leadership qualities;
- public company board and committee experience;
- non-business-related activities and experience (e.g., academic, civic, public interest);

- continuity (including succession planning);
- size of the Board;
- number and type of committees, and committee sizes; and
- legal and other applicable requirements and recommendations, and other corporate governance-related guidance regarding Board and committee composition.

The Nominating and Governance Committee will consider candidates recommended by stockholders who follow the nomination procedures in our bylaws. The Nominating and Governance Committee does not have a formal policy with respect to diversity; however, as noted above, the Board and the Nominating and Governance Committee believe that it is essential that Board members represent diverse viewpoints.

Number of Meetings

The Board held a total of 3 meetings in 2018. Our Audit Committee held 3 meetings, our Compensation Committee held 1 meeting, and our Nominating and Governance Committee held 1 meeting in 2018. Each director attended at least 75% of the aggregate of the total number of meetings of the Board and the Board committees on which he served.

Board Member Attendance at Annual Stockholder Meetings

Although we do not have a formal policy regarding director attendance at annual stockholder meetings, directors are encouraged to attend these annual meetings absent extenuating circumstances. Our 2018 annual meeting was attended by one director serving at the time.

Stockholder Nominations

In accordance with our Bylaws, a stockholder wishing to nominate a director for election at an annual or special meeting of stockholders must timely submit a written proposal of nomination to us at our executive offices. To be timely, a written proposal of nomination for an annual meeting of stockholders must be received at least 90 calendar days but no more than 120 calendar days before the first anniversary of the date on which we held our annual meeting of stockholders in the immediately preceding year; provided, however, that in the event that the date of the annual meeting is advanced or delayed more than 30 calendar days from the anniversary of the annual meeting of stockholders in the immediately preceding year, the written proposal must be received: (i) at least 90 calendar days but no more than 120 calendar days prior to the date of the annual meeting; or (ii) no more than 10 days after the date we first publicly announce the date of the annual meeting. A written proposal of nomination for a special meeting of stockholders must be received no earlier than 120 calendar days prior to the date of the special meeting nor any later than the later of: (i) 90 calendar days prior to the date of the special meeting; and (ii) 10 days after the date we first publicly announce the date of the special meeting.

Each written proposal for a nominee must contain: (i) the name, age, business address and telephone number, and residence address and telephone number of the nominee; (ii) the current principal occupation or employment of each nominee, and the principal occupation or employment of each nominee for the prior ten (10) years; (iii) a complete list of companies, whether publicly traded or privately held, on which the nominee serves (or, during any of the prior ten (10) years, has served) as a member of the board of directors; (iv) the number of shares of our common stock that are owned of record and beneficially by each nominee; (v) a statement whether the nominee, if elected, intends to tender, promptly following such person’s failure to receive the required vote for election or reelection at the next meeting at which the nominee would face election or reelection, an irrevocable resignation effective upon acceptance of such resignation by the Board; (vi) a completed and signed questionnaire, representation and agreement relating to voting agreements or commitments to which the nominee is a party; (vii) other information concerning the nominee that would be required in a proxy statement soliciting the nominee’s election; and (viii) information about, and representations from, the stockholder making the nomination.

A stockholder interested in submitting a nominee for election to the Board of Directors should refer to our Bylaws for additional requirements. Upon receipt of a written proposal of nomination meeting these requirements, the Nominating and Governance Committee of the Board will evaluate the nominee in accordance with its charter and the characteristics listed above.

Director Compensation

In 2018, our independent directors each agreed to serve without any cash or equity compensation until such time as the Company's financial and cash position improved.

The following Director Compensation Table summarizes the compensation of each of our non-employee directors for services rendered to us during the year ended December 31, 2018:

2018 Director Compensation Table

Name	Fees Earned or Paid in Cash ($)	Stock Awards ($)	All Other Comp ($)	Total ($)
Amit Kumar	—	—	—	-
Kim J. Huntley	—	—	—	-
G. Thomas Marsh	—	—	—	-
Victor Lee	—	—	—	—

In addition to the fees listed above, we reimburse the directors for travel expenses submitted to us related to their attendance at meetings of the Board or its committees. The directors did not receive any other compensation or personal benefits.

Code of Ethics

We have adopted a code of ethics that applies to our principal executive officer, principal financial officer, principal accounting officer and other senior finance and accounting staff. The code is designed to, among other things, deter wrongdoing and to promote the honest and ethical conduct of our officers and employees. The text of our code of ethics can be found on our Internet website at www.ascentsolar.com. If we effect an amendment to, or waiver from, a provision of our code of ethics, we intend to satisfy our disclosure requirements by posting a description of such amendment or waiver on that Internet website or via a current report on Form 8-K.

Communication with the Board of Directors

Stockholders may communicate with the Board by sending correspondence to our Chairman, c/o the Corporate Secretary, at our corporate address on the cover of this Form 10-K/A. It is our practice to forward all such correspondence to our Chairman, who is responsible for determining whether to relay the correspondence to the other members of the Board.

Item 11. Executive Compensation

Compensation of Executive Officers in 2018

The following Summary Compensation Table sets forth certain information regarding the compensation of our principal executive officer for services rendered in all capacities to us during the years ended December 31, 2018 and 2017.

Summary Compensation Table

Name and Principal Position	Year	Salary ($)	Bonus ($)	Stock Awards ($)(1)	Option Awards ($)(2)	All Other Comp($)(4)	Total ($)
Victor Lee - Chief Executive Officer	2018	307,154	—	—	—	—	307,154
Victor Lee - Chief Executive Officer	2017	303,069	—	—	—	—	303,069

Executive Employment Agreements

On April 4, 2014, we entered into an employment agreement with Mr. Lee. The employment agreement provides that Mr. Lee will receive an annual base salary of $300,000, subject to annual adjustments as determined by our board. Mr. Lee will also be eligible for an annual bonus of up to 100% of his base salary as determined at the sole discretion of our board or compensation committee. Under this agreement, if the Company terminates Mr. Lee without cause, Mr. Lee is entitled to receive twelve months of base salary from the date of termination. In addition, if Mr. Lee is terminated without Cause, an additional portion of his stock options will become vested. In addition, the employment agreement provides that Mr. Lee is eligible to participate in the Company’s standard benefit plans and programs.

As provided in the employment agreement, Mr. Lee was granted stock options to purchase 1 shares of the Company’s common stock. These options vest in four equal annual installments on the first, second, third and fourth anniversaries of the employment agreement date, with an exercise price of $110,000 per share. These options expire on April 4, 2024.

The following table sets forth information concerning the outstanding equity awards granted to the named executive officers as of April 26, 2019.

Outstanding Equity Awards at Fiscal Year-End 2018

	Option Awards				Stock Awards	
Name	Number of Securities Underlying Unexercised Options(#) Exercisable	Unexercisable	Option Exercise Price($/sh)	Option Expiration Date	Number of Shares or Units of Stock That Have Not Vested	Market Value of Shares or Units of Stock That Have Not Vested
Victor Lee (1)	1	—	$130,000	3/1/2023	—	—
	1	—	$110,000	4/4/2024	—	—
	10	—	$20,200	2/11/2025	—	—
	5		$12,200	6/18/2025	—	—
	10	—	$1,200	3/10/2026	—	—

Vesting dates of securities underlying unexercised options and stock awards not yet vested as of April 26, 2019:

(1) $130,000.00 options - vested on 3/1/15. $110,000.00 Options - vested on 4/4/18. $20,200.20 Options - vested on 2/11/17. $12,200 Options - vested on 6/18/18. $1,200 options - vested on 3/10/18.

Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters
Securities Authorized for Issuance under Equity Compensation Plans

The following table sets forth information as of December 31, 2018 relating to all of our equity compensation plans:

	Number of securities to be issued upon exercise of outstanding options, warrants and rights	Weighted average exercise price of outstanding options, warrants and rights	Number of securities remaining available for future issuance under equity compensation plans
Equity compensation plans approved by security holders	110	$ 132,147	107

SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT
The following table shows information regarding the beneficial ownership of our common stock by our directors, executive officers, former executive officers and greater than 5% beneficial owners as of April 26, 2019. Beneficial ownership is determined in accordance with the rules of the SEC and generally includes any shares over which a person exercises sole or shared voting or investment power and all shares issuable upon exercise of options or the vesting of restricted stock within 60 days of April 26, 2019. For purposes of calculating the percentage of our common stock beneficially owned, the number of shares of our common stock includes 441,182,478 shares of our common stock outstanding as of April 26, 2019.
Unless otherwise indicated, each of the stockholders listed below has sole voting and investment power with respect to the shares beneficially owned. The address for each director or named executive officer is c/o Ascent Solar Technologies, Inc., 12300 North Grant Street, Thornton, Colorado 80241.

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Name of Beneficial Owner	No. of Shares Beneficially Owned	Percentage
5% Stockholders:		
St. George Investments, LLC (1)	48,965,815	9.99 %
BayBridge Capital, LLC (2)	48,476,211	9.90 %
Seng Wei Seow (3)	48,476,211	9.90 %
Global Ichiban (4)	48,476,211	9.90 %
Jason Widjaja (5)	110,226,694	19.99 %
Named Executive Officers and Directors:		
Victor Lee (6)	62	*
Amit Kumar, Ph D.	47	*
Kim J. Huntley	30	*
G. Thomas Marsh	31	*
All directors and executive officers as a group (4 persons)	170	*

* Less than 1.0%

(1) The address of St. George Investment Group, LLC ("St. George") is 303 E Wacker Drive, Suite 1040, Chicago, IL 60601. Consists of shares of common stock owned as of April 26, 2019 and additional shares of common stock issuable, within sixty days of such date, upon the conversion certain convertible notes. The convertible notes contain conversion limitations providing that St. George may not be issued shares of common stock (whether by means of conversion of the convertible notes or otherwise) if, after giving effect to such issuance, St. George would beneficially own in excess of 9.99% of the Company's outstanding shares of common stock. Does not include any other shares of common stock that could be issued to St. George if such 9.99% limitation does not apply.

(2) The address of BayBridge Capital ("BayBridge"), LLC is 401 E Las Olas Blvd., Fort Lauderdale, FL. Consists of shares of common stock owned as of April 26, 2019 and additional shares of common stock issuable as of such date upon conversion of certain convertible notes. The convertible notes contain conversion limitations providing that BayBridge Capital may not be issued shares of common stock (whether by means of conversion of the convertible notes or otherwise) if, after giving effect to such issuance, Baybridge Capital would beneficially own in excess of 9.90% of the Company's outstanding shares of common stock. Does not include any other shares of common stock that may be issued to BayBridge if such limitation does not apply.

(3) The address for Seng Wei Seow (“Seow”) is 17 Jalan Haji Salam, Singapore 468784. Consists of shares of common stock owned as of April 26, 2019 and additional shares of common stock issuable as of such date upon conversion of shares of Series A preferred stock and certain convertible notes. The Series A preferred stock and convertible notes contain conversion limitations providing that Seow may not be issued shares of common stock (whether by means of conversion of the convertible notes or otherwise) if, after giving effect to such issuance, Seow would beneficially own in excess of 9.90% of the Company's outstanding shares of common stock. Does not include any other shares of common stock that could be issued to Seow if such 9.90% limitation does not apply.

(4) The address of Global Ichiban Ltd. (“Global Ichiban”) is 112 Robinson Road #02-01, Singapore 068902. Consists of shares of common stock owned as of April 26, 2019 and additional shares of common stock issuable as of such date upon conversion (exercisable at the option of the Company) of Secured Promissory Notes owned by Global Ichiban. The Secured Promissory Notes contain conversion, exercise and issuance limitations providing that Global Ichiban may not be issued shares of common stock (whether by means of conversion or otherwise) if after giving

effect to such issuance Global Ichiban would beneficially own in excess of 9.90% of the Company's outstanding

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shares of common stock. Does not include any other shares of common stock that may be issued to Global Ichiban if such 9.90% limitation does not apply.

(5) The address for Jason Widjaja is 7 Chwee Chian Road #01-12, Singapore 119749. Consists of shares of common stock owned as of April 26, 2019 and additional shares of common stock issuable as of such date upon conversion of a certain convertible note. The convertible note contains conversion limitations providing that Jason Widjaja may not be issued shares of common stock (whether by means of conversion of the convertible notes or otherwise) if, after giving effect to such issuance, Jason Widjaja would beneficially own in excess of 19.99% of the Company's outstanding shares of common stock. Does not include any other shares of common stock that could be issued to Jason Widjaja if such 19.99% limitation does not apply.

(6) Does not include 333,334 shares of common stock held by Tertius Financial Group Pte. Ltd. (“Tertius”). Mr. Lee is managing director and a 50% owner of Tertius. Mr. Lee disclaims beneficial ownership of our securities held by Tertius except to the extent of his pecuniary interest.

Item 13. Certain Relationships and Related Transactions, and Director Independence

RELATED PARTY TRANSACTIONS

Relationship with Tertius Financial Group Pte. Ltd.

Tertius Financial Group Pte. Ltd. (“Tertius”) is an investment firm located in Singapore. Victor Lee, the Company’s President and CEO, is a managing director and 50% owner of Tertius. As of April 26, 2019 Tertius owned approximately 0.1% of the Company's outstanding common stock.

On August 29, 2016 the Company issued a $330,000 original issue discount note to Tertius Financial Group (“TFG”), in exchange for $300,000 of gross proceeds. On December 6, 2016, the Company issued a new $600,000 original issue discount note to Tertius in exchange for (i) $200,000 of additional gross proceeds and (ii) cancellation of the existing outstanding $330,000 note. This note bears interest at a rate of 6% per annum and will mature December 31, 2017. This note is not convertible into equity shares of the Company and is unsecured.

On January 19, 2017, the Company issued 333,333,333 shares (equivalent to 333,334 shares after 1000:1 reverse stock split on July 23, 2018) of unregistered common stock in a private placement to Tertius pursuant to a Securities Purchase Agreement (the "SPA"). Pursuant to the SPA, the Company issued the 333,333,333 pre-split shares to TFG in exchange for cancellation of its $600,000 promissory note (including accrued interest of approximately $4,340) that was issued by the Company on December 6, 2016. The SPA does not provide any registration rights for the shares issued to TFG.

Relationship with Seng Wei Seow

As of April 26, 2019, the Company has entered into several financing agreements with Seng Wei Seow ("SWS"). SWS owns 48,100 shares of Series A Preferred Stock and is the owner of a promissory note with an outstanding principal balance of $531,641 and convertible notes with an outstanding principal amount of $330,000. For further discussion on these instruments, please refer to Notes 11 and 13 of our Consolidated Financial Statements.

Relationship with BayBridge Capital, LLC

On December 6, 2017, the Company entered into a securities exchange agreement (the "Exchange Agreement") with BayBridge Capital Fund LP ("BayBridge").

Pursuant to the terms of the Exchange Agreement, the Investor agreed to surrender and exchange 675 shares of outstanding Series J Preferred Stock ($755,417 of capital and accrued dividends). In exchange, the Company issued to the investor an unsecured promissory note with an aggregate principal amount of $840,000 (the "Exchange Note"), with an original issue discount of $84,583. ("Exchange Note 1").

The Exchange Note 1 is unsecured, has no applicable registration rights, bears interest at a rate of 12% per annum, matures on December 6, 2018, and contains standard and customary events of default including but not limited to: (i) failure to make payments when due under the Exchange Note, and (ii) bankruptcy or insolvency of the Company. Principal and interest are payable upon maturity.

Payments of principal and accrued interest on the Exchange Note are payable in cash or, at the option of the Company, in shares of Common Stock at a variable conversion price equal to the lowest of (i) 85% of the average VWAP for the shares over the prior 5 trading days, (ii) the closing bid price for the shares on the prior trading day, or (iii) $0.003 per share. Payments in shares of Common Stock may not be issued pursuant to the Exchange Note if, after giving effect to the conversion or issuance, the holder together with its affiliates would beneficially own in excess of 9.90% of the outstanding shares of Common Stock. See Note 12 of our Consolidated Financial Statements for further information on the Exchange Note.

On September 7, 2018, as described in Note 11 of our Consolidated Financial Statements, the Company, entered into an additional securities exchange agreement ("Exchange Agreement 2") with Baybridge. Pursuant to the terms of Exchange Agreement 2, BayBridge agreed to surrender and exchanged an outstanding promissory note with a principal balance of $200,000, plus accrued interest of $16,800, for a convertible note with an aggregate principal amount of $270,000 and an original issue discount of $53,200 ("Exchange Note 2").

Exchange Note 2 is unsecured, has no applicable registration rights, bears interest at a rate of 12% per annum, matures on September 7, 2019 and contains standard and customary events of default including but not limited to: (i) failure to make payments when due under the Exchange Note, and (ii) bankruptcy or insolvency of the Company. Principal and interest are payable upon maturity.

BayBridge shall have the right, from and after the date of issuance of Exchange Note 2, and then at any time until Exchange Note 2 is fully paid, to convert any outstanding and unpaid principal and interest into shares of common stock at a variable conversion price equal to the lesser of (i) a price equal to $0.15, or (ii) 70% of the lowest traded price for the shares over the prior five trading days.

Conversion to shares of common stock may not be issued pursuant to Exchange Note 2 if, after giving effect to the conversion or issuance, the holder together with its affiliates would beneficially own in excess of 9.90% of the outstanding shares of common stock.

As of December 31, 2018, aggregate principal of $1,047,500 and interest of $35,538 had been converted into 20,888,892 shares of common stock and no cash payments of principal or interest had been made on these exchange notes. Exchange Note 1 had been converted in full. The principal and accrued interest balances on Exchange Note 2, as of December 31, 2018 were $62,500 and $220, respectively

Relationship with Global Ichiban

On November 30, 2017, the Company, entered into a note purchase and exchange agreement (the “Note SPA”) with Global Ichiban Ltd, for the private placement of up to $2,000,000 of the Company’s Secured Convertible Promissory Notes (“Notes”) in

exchange for $2,000,000 of gross proceeds in several tranches through June 2018. The closing of each tranche is conditioned upon the Company having an average daily trading volume for its Common Stock of at least $50,000 for the 20 trading day period preceding such future tranche closing dates.

Pursuant to the terms of the Note SPA, the Company and the Global Ichiban also agreed to exchange certain outstanding securities held by the investor for additional Notes. As of November 30, 2017, the Investor surrendered for cancellation (i) its outstanding promissory note dated September 13, 2017 ($3,359,539 principal and accrued interest), (ii) its outstanding promissory note dated October 31, 2017 ($252,466 principal and accrued interest), and (iii) its 400 shares of outstanding Series J Preferred Stock ($445,222 of capital and accrued dividends). In exchange, the Company issued to Global Ichiban $4,057,227 aggregate principal amount of additional Notes.

All principal and accrued interest on the notes are redeemable at any time, in whole or in part, at the option of Global. The redemption amount may be paid in cash or converted into shares of common stock at a variable conversion price equal to the lowest of (i) 85% of the average VWAP for the shares over the prior 5 trading days, (ii) the closing bid price for the shares on the prior trading day, or (iii) $2.00 per share, at the option of the Company.

The notes may not be converted, and shares of common stock may not be issued pursuant to the notes, if, after giving effect to the conversion or issuance, the holder together with its affiliates would beneficially own in excess of 9.90% of the outstanding shares of common stock.

Of the notes issued on November 30, 2017, $3,359,539 aggregate principal amount will mature on December 15, 2020.
Principal and interest was originally to be payable in 36 equal monthly installments of $111,585 beginning January 15, 2018.
During the year ended December 31, 2018, principal of $(1,426,000) was converted into 3,486,276 shares of common stock, and $140,518 of interest was converted to principal. The remaining note is payable in 30 equal monthly installments of $80,360
beginning July 15, 2018. The Company has not made the payments as outlined in the agreement; this note is due upon demand.

Of the notes issued on November 30, 2017, $697,688 aggregate principal amount matured on November 30, 2018. Principal and interest on these notes are due upon demand.

The $2,000,000 aggregate principal amount of notes, issued in eight tranches, will mature on the first anniversary of the respective issuance date. Principal and interest will be payable upon maturity; for the maturity dates that have passed, the note is due upon demand.

On July 6, 2018, the Company issued an additional, promissory note to Global, pursuant to the note purchase and exchange agreement dated November 30, 2017. In accordance with the agreement, the Company issued a note with a principal balance of $135,000 in exchange for gross proceeds of $120,000. This note matures on July 6, 2019. Principal and interest on this note are payable at maturity. The original issue discount of $15,000 will be allocated to interest expense, ratably, over the life of the note. This note is not redeemable in stock.

On October 2, 2018, the Company issued an additional promissory note to Global, pursuant to the note purchase and exchange agreement dated November 30, 2017. In accordance with the agreement, the Company issued a note with a principal balance of $150,000 in exchange for gross proceeds of $125,000. This note matures on October 2, 2019. Principal and interest on this note are payable at maturity. The original issue discount of $25,000 will be allocated to interest expense, ratably, over the life of the note. This note is redeemable in stock, at the discretion of the Company, under the same conversion terms described above.

On October 18, 2018, Global sold one of its notes to another investor. As a result of this sale, $250,000 in principal and $26,466 of accrued interest were assigned to the new investor and is no longer considered secured debt. Please refer to

Note 12 of our Consolidated Financial Statements for further discussion of this assignment. This note is redeemable in stock, at the discretion of the Company, under the same conversion terms described above.

On October 22, 2018, the Company issued an additional promissory note to Global, pursuant to the note purchase and exchange agreement dated November 30, 2017. In accordance with the agreement, the Company issued a note with a principal balance of $150,000 in exchange for gross proceeds of $125,000. This note matures on October 22, 2019. Principal and interest on this note are payable at maturity. The original issue discount of $25,000 will be allocated to interest expense, ratably, over the life of the note.

The Notes will be secured by a security interest on substantially all of the Company's assets, bear interest at a rate of 12% per annum and contain standard and customary events of default including but not limited to: (i) failure to make payments when due under the Notes, and (ii) bankruptcy or insolvency of the Company. There are no registration rights applicable to the Notes.

All principal and accrued interest on the Notes are convertible at any time, in whole or in part, at the option of the Investor into shares of Common Stock at a variable conversion price equal to the lowest of (i) 85% of the average VWAP for the shares over the prior 5 trading days, (ii) the closing bid price for the shares on the prior trading day, or (iii) $0.002 per share.

The Notes may not be converted and shares of Common Stock may not be issued pursuant to the Notes if, after giving effect to the conversion or issuance, the holder together with its affiliates would beneficially own in excess of 9.90% of the outstanding shares of Common Stock. See Note 10 of our Consolidated Financial Statements for further information on the Secured Promissory Notes.

As of December 31, 2018, the aggregate principal and interest balance of the Notes were $4,956,745 and $455,356, respectively.

Relationship with Jason Widjaja

On January 11, 2019, the Company entered into a note purchase with Jason Widjaja ("Widjaja"), for the private placement of a $330,000 convertible promissory note. The note will mature on January 11, 2020. Principal and interest on the note will be payable in a lump sum on January 11, 2020. The note will bear interest at a rate of 12% per annum.

At any time after issuance of the note until fully paid, Widjaja shall have the option to convert all or a portion of the amounts into shares of the Company's Common Stock. Conversions into Common Stock shall be calculated using a variable conversion price equal to 80% of the lowest closing bid price for the shares over the prior five (5) trading days immediately preceding the conversion date. The note may not be converted and shares of Common Stock may not be issued pursuant to the notes if, after giving effect to the conversion or issuance, the holder together with its affiliates would beneficially own in excess of 19.99% of the outstanding shares of Common Stock.

Relationship with St. George Investments

On September 8, 2017, the Company entered into a securities purchase agreement with St. George Investments, LLC ("St. George"), for the private placement of $1,725,000 principal amount of the Company's Original Issue Discount Convertible Promissory Notes.

Unless earlier converted or prepaid, the convertible notes will mature on March 11, 2019. The notes do not bear interest in the absence of an event of default.

For the first six months after the issuance of the notes, the Company will make a monthly cash repayment on the notes of approximately $96,000. Thereafter, the St. George may request that the Company make monthly partial redemptions of the note up to $150,000 per month. If the St. George does not request the full $150,000 redemption amount in any one month, the

unused portion of such monthly redemption amount can be added to future monthly redemption amounts. But in no event can the amount requested by the St. George for any one month exceed $275,000.

Redemption amounts are payable by the Company in cash. Beginning ten months after the issuance of the convertible notes, cash redemption payments by the Company will be subject to a 15% redemption premium.

Beginning six months after the issuance of the convertible notes, the Company also has the option (subject to customary equity conditions) to pay redemption amounts in the form of shares of common stock. Payments in the form of shares would be calculated using a variable conversion price equal to the lower of (i) 85% of the average VWAP for the shares over the prior 5 trading days or (ii) the closing bid price for the shares on the prior trading day.

All principal and accrued interest on the notes are convertible at any time, in whole or in part, at the option of the St. George into shares of Common Stock at a fixed conversion price of $4.00 per share. The notes contain standard and customary events of default including but not limited to: (i) failure to make payments when due under the notes; and (ii) bankruptcy or insolvency of the Company. Upon the occurrence of an event of default, the notes will begin to bear interest at the rate of 22% per annum. In addition, upon the occurrence of an event of default, the St. George has the option to increase the outstanding balance of the notes by 25%.

In connection with the September 2017 closing, the Company issued 37,500 unregistered shares of common stock to the St. George as an origination fee. The closing stock price on the date of close was $1.70 resulting in an interest expense of $63,750 being recorded as of the date of close.

The notes may not be converted and shares of Common Stock may not be issued pursuant to the notes if, after giving effect to the conversion or issuance, the holder together with its affiliates would beneficially own in excess of 9.99% of the outstanding shares of Common Stock.

During the fourth quarter of 2017, we made cash payments of $191,667 on this note, and as of December 31, 2017, the principal balance on this note was $1,705,833.

On May 8, 2018, the Company, entered into a second note purchase agreement with St. George for the private placement of a $575,000 secured convertible promissory note. The Company received $500,000 in aggregate proceeds for the note in two tranches and recorded and original issue discount of $50,000 and debt financing costs of $25,000. The original issue discount and the financing costs will be recognized as interest expense, ratably, over the life of the note. The note bears interest at a rate of 10% per annum and matures on May 9, 2019. All unredeemed principal and accrued interest is payable upon maturity. The note contains standard and customary events of default including but not limited to: (i) failure to make payments when due under the note, and (ii) bankruptcy or insolvency of the Company. In the event of default the interest rate increases to 22% per annum. The note is secured by a junior security interest on the Company's headquarters building, located in Thornton, Colorado. There are no registration rights applicable to this agreement.

Beginning in early November 2018, St. George shall have the option to require the Company to redeem all or a portion of the amounts outstanding under the note. The Company may pay the requested redemption amounts in cash or in the form of shares of common stock (subject to certain specified equity conditions). Payments in the form of Common Stock shall be calculated using a variable conversion price equal to (i) 60% of the average of the two lowest closing bid prices for the shares over (ii) the prior ten day trading period immediately preceding the redemption.

On November 5, 2018, the Company entered into a third securities purchase agreement with St. George, for the private placement of a $1,220,000 secured convertible promissory note. On November 7, 2018, the Company received $200,000 of gross proceeds from the offering of the note. The Company may receive additional cash proceeds of up to

an aggregate of $800,000 through cash payments made from time to time by St George of principal and interest under the eight St. George notes. The aggregate principal amount of the note is divided into nine tranches, which tranches correspond to (i) the cash funding received on November 7, 2018 and (ii) the principal amounts of the eight St. George notes. As of December 31, 2018, the Company had received an additional $400,000 in proceeds and had recorded $740,000 in principal related to the Company and St. George notes.

The Company recorded and original issue discounts of $120,000 and debt financing costs of $20,000, which will be recognized as interest expense, ratably, over the life of the note.

The notes bear interest at a rate of 10% per annum and matures on November 5, 2019. All unredeemed principal and accrued interest is payable upon maturity. The notes contain standard and customary events of default including but not limited

to: (i) failure to make payments when due under the note, and (ii) bankruptcy or insolvency of the Company. In the event of default the interest rate increases to 22% per annum. The notes are secured by a security interest on the Company's headquarters building, located in Thornton, Colorado. There are no registration rights applicable to this agreement.

Beginning in early May 2019, St. George shall have the option to redeem all or a portion of the amounts outstanding under the Company note. At St. George's option, redemption amounts are payable by the Company in cash or in the form of shares of the common stock. Conversions into common stock shall be calculated using a variable conversion price equal to 60% of the average of the two lowest closing bid price for the shares over the prior ten day trading period immediately preceding the conversion.

Shares of common stock may not be issued pursuant to the note if, after giving effect to the conversion or issuance, the holder together with its affiliates would beneficially own in excess of 9.99% of the outstanding shares of common stock. As of December 31, 2018, the aggregate principal and interest balance of the notes were $1,315,000 and $45,121, respectively.

Policies and Procedures with Respect to Transactions with Related Persons
The Board recognizes that related person transactions can present a heightened risk of potential or actual conflicts of interest. Accordingly, our Audit Committee charter requires that all such transactions will be reviewed and subject to approval by members of our Audit Committee, which will have access, at our expense, to our or independent legal counsel. Future transactions with our officers, directors or greater than five percent stockholders will be on terms no less favorable to us than could be obtained from independent third parties.

Director Independence

Our Board of Directors has determined that three out of our five directors are independent directors, as defined under the applicable rules of the OTC Market listing standards. The independent directors are Messrs. Kumar, Huntley and Marsh.

Item 14. Principal Accounting Fees and Services

PRINCIPAL ACCOUNTANTS

Fees for audit and related services by our accounting firm, Hein & Associates LLP, for the years ended December 31, 2018 and 2017 were as follows:

	2018	2017
Audit fees	$ 0	$138,239
Audit related fees	0	17,590
Total audit and audit related fees	$ 0	$155,829
Tax fees		0
All other fees		0
Total Fees	$ 0	$155,829

Audit fees for Hein & Associates LLP for fiscal year 2017 represent aggregate fees during the audit of the financial statements, interim reviews of the quarterly financial statements and consents and comfort letters.

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On November 15, 2017, following the completion of the combination with Moss Adams, LLP, Hein & Associates, LLP (“Hein”) informed the Company of its resignation as the Company’s independent registered public accounting firm, effective immediately, which resignation was accepted by the audit committee of the Company's board of directors on November 16, 2017.

The reports of Haynie & Company on the financial statements of the Company for the fiscal year ended December 31, 2018 and from Hein for the fiscal year ending 2017 did not contain an adverse opinion or disclaimer of opinion, nor were they qualified or modified as to uncertainty, audit scope or accounting principles, with the exception of providing a qualification as to the Company’s ability to continue as a going concern in the Company's financial statements for the fiscal years ended December 31, 2018 and December 31, 2017.

The decision to accept the resignation of Hein was approved by the Company’s audit committee and board of directors.

On December 14, 2017, the Company’s audit committee and board of directors approved the engagement of Haynie & Company as our new independent registered public accounting firm to audit and review the Company’s financial statements.

Fees for audit and related services by our accounting firm, Haynie & Company, for the years ended December 31, 2018 and 2017 were as follows:

	2018	2017
Audit fees	$223,000	$125,0000
Audit related fees	0	0
Total audit and audit related fees	$	$125,000
Tax fees	20,07575	0
All other fees	7,000	0
Total Fees	$245,400	$125,000

Audit fees for Haynie & Company for fiscal year 2018 and 2017 represents aggregate fees for the 2018 and 2017 annual audit of the financial statements.

Audit Committee Pre-Approval Policies and Procedures

The Audit Committee charter provides that the Audit Committee will pre-approve all audit services and non-audit services to be provided by our independent auditors before the accountant is engaged to render these services. The Audit Committee may consult with management in the decision making process, but may not delegate this authority to management. The Audit Committee may delegate its authority to pre-approve services to one or more committee members, provided that the designees present the pre-approvals to the full committee at the next committee meeting. All audit and non-audit services performed by our independent accountants have been pre-approved by our Audit Committee to assure that such services do not impair the auditors’ independence from us.

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PART IV

Item 15. Exhibits and Financial Statement Schedules

(a) The following documents were filed as part of the Annual Report on Form 10-K:

(1) Financial Statements—No financial statements are filed with this Form 10-K/A. The financial statements and notes thereto were included as part of the 10-K filed with the SEC on April 16, 2019.

(2) Financial Statement Schedules—Supplemental schedules are not provided because of the absence of conditions under which they are required or because the required information is given in the financial statements or notes thereto.

(3) Exhibits: See Item 15(b) below.

(b) Exhibits: See Exhibit Index.

INDEX TO EXHIBITS

Set forth below is a list of exhibits that are being filed or incorporated by reference into this Annual Report on Form 10-K:

Exhibit No.	Description
3.1	Amended and Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.2 to our Registration Statement on Form SB-2 filed on January 23, 2006 (Reg. No. 333-131216))
3.2	Certificate of Amendment to the Amended and Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.1 to our Quarterly Report on Form 10-Q for the quarter ended September 30, 2011)
3.3	Certificate of Amendment to the Amended and Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed February 11, 2014)
3.4	Certificate of Amendment to the Amended and Restated Certificate of Incorporation of the Company, dated August 26, 2014. (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed September 2, 2014)
3.5	Certificate of Amendment to the Amended and Restated Certificate of Incorporation of the Company, dated October 27, 2014 (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K dated October 28, 2014)
3.6	Certificate of Amendment to the Amended and Restated Certificate of Incorporation of the Company, dated December 22, 2014. (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K dated December 23, 2014)
3.7	Second Amended and Restated Bylaws (incorporated by reference to Exhibit 3.2 to our Current Report on Form 8-K filed on February 17, 2009)
3.8	First Amendment to Second Amended and Restated Bylaws (incorporated by reference to Exhibit 3.3 to our Quarterly Report on Form 10-Q for the quarter ended September 30, 2009)
3.9	Second Amendment to Second Amended and Restated Bylaws (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed January 25, 2013)
3.10	Third Amendment to Second Amended and Restated Bylaws (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed December 18, 2015)
3.11	Certificate of Designations of Preferences, Rights and Limitations of Series F 7% Preferred Stock (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed January 20, 2016)
3.12	Certificate of Designations of Preferences, Rights and Limitations of Series G 10% Preferred Stock (incorporated by reference to Exhibit 2 to Exhibits 10.5 and 10.6 to our Current Report on Form 8-K filed May 2, 2016).
3.13	Certificate of Amendment to the Amended and Restated Certificate of Incorporation of the Company, dated May 26, 2016 (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed June 2, 2016)
3.14	Certificate of Designations of Preferences, Rights and Limitations of Series H 7% Preferred Stock (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed June 9, 2016)
3.15	Certificate of Designations of Preferences, Rights and Limitations of Series I Preferred Stock (incorporated by reference to Exhibit 2 to Exhibit 10.1 to our Current Report on Form 8-K filed July 28, 2016)
3.16	Certificate of Amendment to the Amended and Restated Certificate of Incorporation of the Company, dated September 15, 2016 (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed September 16, 2016)
3.17	Certificate of Designations of Preferences, Rights and Limitations of Series J Preferred Stock (incorporated by reference to Exhibit 2 to Exhibit 10.1 to our Current Report on Form 8-K filed September 23, 2016)
3.18	Certificate of Amendment to Series G Certificate of Designations (incorporated by reference to Exhibit 3.2 to our Current Report on Form 8-K filed September 23, 2016)
3.19	Certificate of Amendment to Series F Certificate of Designations (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed October 11, 2016)

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Exhibit No.	Description
3.20	Certificate of Designations of Preferences, Rights and Limitations of Series J-1 Preferred Stock (incorporated by reference to Exhibit 2 to Exhibit 10.1 to our Current Report on Form 8-K filed October 20, 2016)
3.21	Certificate of Designations of Preferences, Rights and Limitations of Series K Preferred Stock (incorporated by reference to Exhibit 2 to Exhibit 10.1 to our Current Report on Form 8-K filed February 14, 2017)
3.22	Certificate of Amendment to the Amended and Restated Certificate of Incorporation of the Company, dated March 16, 2017 (incorporated by reference to Exhibit 3.2 to our Current Report on Form 8-K filed March 17, 2017)
3.23	Certificate of Amendment to the Amended and Restated Certificate of Incorporation of the Company, dated July 19, 2018 (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed July 23, 2018)
4.1	Form of Common Stock Certificate (incorporated by reference to Exhibit 4.1 to our Registration Statement on Form SB-2 filed on January 23, 2006 (Reg. No. 333-131216))
4.2	Certificate of Designations of Series A Preferred Stock (filed as Exhibit 4.2 to our Registration Statement on Form S-3 filed July 1, 2013 (Reg. No. 333-189739))
4.3	Form of Warrant (filed as Exhibit 4.3 to our Registration Statement on Form S-3 filed July 1, 2013 (Reg. No. 333-189739))
4.4	Certificate of Designations of Series B-1 and B-2 Preferred Stock (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed October 30, 2013)
4.5	Certificate of Designations of Series C Preferred Stock (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed April 2, 2014)
4.6	Certificate of Designations of Preferences, Rights and Limitations of Series D Preferred Stock (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed November 17, 2014)
4.7	Certificate of Designations of Preferences, Rights and Limitations of Series D-1 Preferred Stock (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed February 20, 2015)
4.8	Certificate of Designations, Preferences and Rights of the Series E Convertible Preferred Stock (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed on November 10, 2015)
10.1	Securities Purchase Agreement, dated January 17, 2006, between the Company and ITN Energy Systems, Inc. (incorporated by reference to Exhibit 10.1 to our Registration Statement on Form SB-2 filed on January 23, 2006 (Reg. No. 333-131216))CTR
10.2	Invention and Trade Secret Assignment Agreement, dated January 17, 2006, between the Company and ITN Energy Systems, Inc. (incorporated by reference to Exhibit 10.2 to our Registration Statement on Form SB-2 filed on January 23, 2006 (Reg. No. 333-131216))CTR
10.3	Patent Application Assignment Agreement, dated January 17, 2006, between the Company and ITN Energy Systems, Inc. (incorporated by reference to Exhibit 10.3 to our Registration Statement on Form SB-2 filed on January 23, 2006 (Reg. No. 333-131216))
10.4	License Agreement, dated January 17, 2006, between the Company and ITN Energy Systems, Inc. (incorporated by reference to Exhibit 10.4 to our Registration Statement on Form SB-2 filed on January 23, 2006 (Reg. No. 333-131216))CTR
10.5	Letter Agreement, dated November 23, 2005, among the Company, ITN Energy Systems, Inc. and the University of Delaware (incorporated by reference to Exhibit 10.16 to our Registration Statement on Form SB-2/A filed on May 26, 2006 (Reg. No. 333-131216))
10.6	License Agreement, dated November 21, 2006, between the Company and UD Technology Corporation (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on November 29, 2006)CTR
10.7	Novation Agreement, dated January 1, 2007, among the Company, ITN Energy Systems, Inc. and the United States Government (incorporated by reference to Exhibit 10.23 to our Annual Report on Form 10-KSB for

	the year ended December 31, 2006)
10.8	Construction Loan Agreement, dated February 8, 2008, between the Company and the Colorado Housing and Finance Authority (incorporated by reference to Exhibit 10.37 to our Annual Report on Form 10-K for the year ended December 31, 2007)

Exhibit No.	Description
10.9	Promissory Note, dated February 8, 2008, issued to the Colorado Housing and Finance Authority (incorporated by reference to Exhibit 10.38 to our Annual Report on Form 10-K for the year ended December 31, 2007)
10.10	Loan Modification Agreement, dated January 29, 2009, between the Company and the Colorado Housing and Finance Authority (incorporated by reference to Exhibit 10.52 to our Annual Report on Form 10-K for the year ended December 31, 2008)
10.11†	Executive Employment Agreement, dated April 4, 2014, between the Company and Victor Lee (filed as Exhibit 10.1 to our Current Report on Form 8-K filed on April 9, 2014) †
10.12	Series E Securities Purchase Agreement, dated November 4, 2015, between the Company and Redwood Management, LLC Ltd (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed November 10, 2015)
10.13	Series E Registration Rights Agreement, dated November 4, 2015, between the Company and Redwood Management, LLC (incorporated by reference to Exhibit 10.2 to our Current Report on Form 8-K filed November 10, 2015)
10.14	Equity Line Purchase Agreement dated November 10, 2015 (incorporated by reference to Exhibit 10.3 to our Current Report on Form 8-K filed November 10, 2015)
10.15	Equity Line Registration Rights Agreement dated November 10, 2015 (incorporated by reference to Exhibit 10.4 to our Current Report on Form 8-K filed November 10, 2015)
10.16	Series F Securities Purchase Agreement, dated January 19, 2016, between the Company and Redwood Management, LLC Ltd (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed January 20, 2016)
10.17	Right to Receive Common Stock dated April 29, 2016 (incorporated by reference to Exhibit 10.3 to our Current Report on Form 8-K filed May 2, 2016)
10.18	Right to Receive Common Stock dated April 29, 2016 (incorporated by reference to Exhibit 10.4 to our Current Report on Form 8-K filed May 2, 2016)
10.19	Series G Securities Purchase Agreement dated April 29, 2016 (incorporated by reference to Exhibit 10.5 to our Current Report on Form 8-K filed May 2, 2016
10.20	Series G Securities Purchase Agreement dated April 29, 2016 (incorporated by reference to Exhibit 10.6 to our Current Report on Form 8-K filed May 2, 2016
10.21	Series H Securities Purchase Agreement dated June 9, 2016 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed June 9, 2016)
10.22	Series H Registration Rights Agreement dated June 9, 2016 (incorporated by reference to Exhibit 10.2 to our Current Report on Form 8-K filed June 9, 2016)
10.23†	Seventh Amended and Restated 2005 Stock Option Plan (incorporated by reference to Annex C of our definitive proxy statement dated April 22, 2016)†
10.24†	Seventh Amended and Restated 2008 Restricted Stock Plan Stock Option Plan Plan (incorporated by reference to Annex B of our definitive proxy statement dated April 22, 2016)†
10.25	Series I Securities Purchase Agreement dated July 26, 2016 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed July 28, 2016)
10.26	Form of 10% Convertible Note (incorporated by reference to Exhibit 10.2 to our Current Report on Form 8-K filed September 14, 2016)
10.27	Exchange Agreement dated September 13, 2016 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed September 14, 2016)
10.28	Series J Securities Purchase Agreement dated September 19, 2016 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed September 23, 2016)
10.29	Securities Purchase Agreement for Notes dated October 5, 2016 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed October 11, 2016)

10.30	Note due December 5, 2016 (incorporated by reference to Exhibit 10.2 to our Current Report on Form 8-K filed October 11, 2016)
10.31	Note due January 3, 2017 (incorporated by reference to Exhibit 10.3 to our Current Report on Form 8-K filed October 11, 2016)
10.32	Note due February 3, 2017 (incorporated by reference to Exhibit 10.4 to our Current Report on Form 8-K filed October 11, 2016)
10.33	Exchange Agreement dated October 5, 2016 (incorporated by reference to Exhibit 10.5 to our Current Report on Form 8-K filed October 11, 2016)

Exhibit No.	Description
10.34	Series J-1 Securities Purchase Agreement dated October 14, 2016 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed October 20, 2016)
10.35	Note dated December 2, 2016 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed December 8, 2016)
10.36	Note dated December 6, 2016 (incorporated by reference to Exhibit 10.2 to our Current Report on Form 8-K filed December 8, 2016)
10.37	Note dated December 13, 2016 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed December 19, 2016)
10.38	Note dated December 30, 2016 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed January 6, 2017)
10.39	Note dated January 10, 2017 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed January 17, 2017)
10.40	$300,000 Note dated January 16, 2017 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed January 20, 2017)
10.41	$700,000 Note dated January 17, 2017 (incorporated by reference to Exhibit 10.2 to our Current Report on Form 8-K filed January 20, 2017)
10.42	Securities Purchase Agreement dated January 19, 2017 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed January 24, 2017)
10.43	Note dated February 7, 2017 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed February 9, 2017)
10.44	Series K Securities Purchase Agreement dated February 8, 2017 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed February 14, 2017)
10.45	Note dated February 13, 2017 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed February 17, 2017)
10.46	$400,000 Note dated February 27, 2017 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed March1, 2017)
10.47	Intellectual Property Disposal Agreement dated as of January 25, 2017 and effective February 23, 2017 (incorporated by reference to Exhibit 10.2 to our Current Report on Form 8-K filed March 1, 2017)
10.48	Note dated March 13, 2017 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed March 17, 2017)
10.49	Note dated March 24, 2017 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed March 29, 2017)
10.50	Note dated April 6, 2017 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed April 7, 2017)
10.51	Note dated April 21 2017 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed April 24, 2017)
10.52	Forbearance and Settlement Agreement dated May 5, 2017 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed May 10, 2017)
10.53	Note dated May 8, 2017 (incorporated by reference to Exhibit 10.2 to our Current Report on Form 8-K filed May 10, 2017)
10.54	Form of Warrant (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed July 27, 2017)
10.55	Form of Warrant (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed August 11, 2017)
10.56	Securities Purchase Agreement dated September 8, 2017 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed September 14, 2017)
10.57	

	Note dated September 11, 2017 (incorporated by reference to Exhibit 10.2 to our Current Report on Form 8-K filed September 14, 2017)
10.58	Promissory Note Exchange Agreement dated September 13, 2017 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed September 20, 2017)
10.59	Note dated September 13, 2017 (incorporated by reference to Exhibit 10.2 to our Current Report on Form 8-K filed September 20, 2017)
10.60	Note dated October 31, 2017 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed November 8, 2017)

Exhibit No.	Description
10.61	Note dated November 16, 2017 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed November 22, 2017)
10.62	Note Purchase and Exchange Agreement dated November 30, 2017 (incorporated by reference to Exhibit 10.62 to our Annual Report on Form 10-K filed March 29, 2018)
10.63	Form of Secured Convertible Promissory Note - 36 month maturity (incorporated by reference to Exhibit 10.63 to our Annual Report on Form 10-K filed March 29, 2018)
10.64	Form of Secured Convertible Promissory Note - 12 month maturity (incorporated by reference to Exhibit 10.64 to our Annual Report on Form 10-K filed March 29, 2018)
10.65	Security Agreement dated November 30, 2017 (incorporated by reference to Exhibit 10.65 to our Annual Report on Form 10-K filed March 29, 2018)
10.66	Series J Securities Exchange Agreement dated December 6, 2017 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed December 12, 2017)
10.67	Note dated December 6, 2017 (incorporated by reference to Exhibit 10.2 to our Current Report on Form 8-K filed December 12, 2017)
10.68	Warrant dated December 15, 2017 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed December 20, 2017)
10.69	Unsecured Promissory Note dated January 31, 2018 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed February 2, 2018)
10.70	Unsecured Promissory Note dated January 31, 2018 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed February 2, 2018)
10.71	Amendment of Outstanding Convertible Notes dated May 1, 2018 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed May 7, 2018)
10.72	Securities Purchase Agreement dated May 8, 2018 (incorporated by reference to Exhibit 10.1 to our Quarterly Report on Form 10-Q filed August 20, 2018)
10.73	Secured Convertible Note dated May 8, 2018 (incorporated by reference to Exhibit 10.2 to our Quarterly Report on Form 10-Q filed August 20, 2018)
10.74	Unsecured Promissory Note dated June 6, 2018 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed June 12, 2018)
10.75	Secured Promissory Note dated July 6, 2018 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed July 12, 2018)
10.76	Unsecured Promissory Note dated July 24, 2018 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed July 30, 2018)
10.77	Exchange Agreement dated July 25, 2018 (incorporated by reference to Exhibit 10.2 to our Current Report on Form 8-K filed on July 30, 2018)
10.78	Unsecured Convertible Exchange Note dated July 25, 2018 (incorporated by reference to Exhibit 10.3 to our Current Report on Form 8-K filed on July 30, 2018)
10.79	Securities Purchase Agreement dated August 1, 2018 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on August 8, 2018)
10.80	Convertible Promissory Note dated August 1, 2018 (incorporated by reference to Exhibit 10.2 to our Current Report on Form 8-K filed on August 8, 2018)
10.81	Securities Purchase Agreement dated August 29, 2018 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on September 10, 2018)
10.82	Convertible Promissory Note dated August 29, 2018 (incorporated by reference to Exhibit 10.82 Convertible Promissory Note dated August 29, 2018 (incorporated by reference to Exhibit 10.2 to our Current Report on Form 8-K filed on September 10, 2018)
10.83	

	Securities Purchase Agreement dated September 4, 2018 (incorporated by reference to Exhibit 10.3 to our Current Report on Form 8-K filed on September 10, 2018)
10.84	Convertible Promissory Note dated September 4, 2018 (incorporated by reference to Exhibit 10.4 to our Current Report on Form 8-K filed on September 10, 2018)
10.85	Exchange Agreement dated September 7, 2018 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on September 13, 2018)
10.86	Convertible Promissory Note dated September 7, 2018 (incorporated by reference to Exhibit 10.2 to our Current Report on Form 8-K filed on September 13, 2018)
10.87	Non-Convertible Promissory Note dated September 10, 2018 (incorporated by reference to Exhibit 10.3 to our Current Report on Form 8-K filed on September 13, 2018)

Exhibit No.	Description
10.88	Convertible Promissory Note dated September 14, 2018 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on September 20, 2018)
10.89	Secured Convertible Promissory Note dated October 2, 2018 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on October 9, 2018)
10.90	Securities Purchase Agreement dated October 16, 2018 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on October 23, 2018)
10.91	Convertible Promissory Note dated October 16, 2018 (incorporated by reference to Exhibit 10.2 to our Current Report on Form 8-K filed on October 23, 2018)
10.92	Secured Promissory Note dated October 22, 2018 (incorporated by reference to Exhibit 10.3 to our Current Report on Form 8-K filed on October 23, 2018)
10.93	Securities Purchase Agreement dated November 5, 2018 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on November 14, 2018)
10.94	Convertible Promissory Note dated November 5, 2018 (incorporated by reference 10.95 Investor Notes (Numbered 1 through 8) each dated November 5, 2018 (incorporated by reference to Exhibit 10.3 to our Current Report on Form 8-K filed on November 14, 2018)
10.95	Investor Notes (Numbered 1 through 8) each dated November 5, 2018 (incorporated by reference to Exhibit 10.3 to our Current Report on Form 8-K filed on November 14, 2018)
10.96	Non-Convertible Promissory Note Dated December 31, 2018 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on January 3, 2019)
10.97	Unsecured Promissory Note dated January 11, 2019 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on January 15, 2019)
10.98	Securities Purchase Agreement Dated February 14, 2019 (incorporated by reference to Exhibit 10.98 to our Annual Report filed on April 16, 2019)
10.99	Convertible Promissory Note Dated February 14, 2019 (incorporated by reference to Exhibit 10.99 to our Annual Report filed on April 16, 2019)
10.100	GS Capital Partners Convertible Redeemable Note (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on February 28, 2019)
10.101	GS Capital Partners Securities Purchase Agreement (incorporated by reference to Exhibit 10.2 to our Current Report on Form 8-K filed on February 28, 2019)
10.102	Securities Purchase Agreement Dated March 7, 2019 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on March 13, 2019)
10.103	Convertible Promissory Note Dated March 7, 2019 (incorporated by reference to Exhibit 10.2 to our Current Report on Form 8-K filed on March 13, 2019)
10.104	Exchange Agreement I Dated March 11, 2019 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on March 15, 2019)
10.105	Convertible Promissory Note Dated March 11, 2019 (incorporated by reference to Exhibit 10.2 to our Current Report on Form 8-K filed on March 15, 2019)
10.106	Exchange Agreement II Dated March 11, 2019 (incorporated by reference to Exhibit 10.3 to our Current Report on Form 8-K filed on March 15, 2019)
10.107	Convertible Promissory Note Dated March 11, 2019 (incorporated by reference to Exhibit 10.4 to our Current Report on Form 8-K filed on March 15, 2019)
10.108	Non-Convertible Promissory Note Dated March 11, 2019 (incorporated by reference to Exhibit 10.5 to our Current Report on Form 8-K filed on March 15, 2019)
10.109	Securities Purchase Agreement Dated March 13, 2019 (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on March 22, 2019)
10.110	Secured Convertible Promissory Note Dated March 13, 2019 (incorporated by reference to Exhibit 10.2 to our Current Report on Form 8-K filed on March 22, 2019)

23.1	Consent of Haynie & Company (incorporated by reference to Exhibit 23.1 to our Annual Report on Form 10-K filed April 16, 2019)
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 (incorporated by reference to Exhibit 32.1 to our Annual Report on Form 10-K filed April 16, 2019)

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Exhibit No.	Description
32.2	Chief Financial Officer Certification pursuant to section 906 of the Sarbanes-Oxley Act of 2002 (incorporated by reference to Exhibit 32.2 to our Annual Report on Form 10-K filed April 16, 2019)
101.INS	XBRL Instance Document (incorporated by reference to Exhibit 101.INS to our Annual Report on Form 10-K filed April 16, 2019)
101.SCH	XBRL Taxonomy Extension Schema Document (incorporated by reference to Exhibit 101.SCH to our Annual Report on Form 10-K April 16, 2019)
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document (incorporated by reference to Exhibit 101.CAL to our Annual Report on Form 10-K filed April 16, 2019)
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document (incorporated by reference to Exhibit 101.DEF to our Annual Report on Form 10-K filed April 16, 2019)
101.LAB	XBRL Taxonomy Extension Label Linkbase Document (incorporated by reference to Exhibit 101.LAB to our Annual Report on Form 10-K filed April 16, 2019)
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document (incorporated by reference to Exhibit 101.PRE to our Annual Report on Form 10-K filed April 16, 2019)

*	Filed herewith
CTR	Portions of this exhibit have been omitted pursuant to a request for confidential treatment.
†	Denotes management contract or compensatory plan or arrangement.

Item 16.	Form 10-K Summary None

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ASCENT SOLAR TECHNOLOGIES, INC.
SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this Amendment No. 1 on Form 10-K/A to be signed on its behalf by the undersigned, thereunto duly authorized on the 29th day of April, 2019.

ASCENT SOLAR TECHNOLOGIES, INC.

By: /S/ VICTOR LEE
Lee Kong Hian (aka Victor Lee)
President and Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant in the capacities and on the dates indicated.

Signature	Capacities	Date
/S/ VICTOR LEE Lee Kong Hian (aka Victor Lee)	President & Chief Executive Officer and a Director (principal executive officer, and principal financial officer and accounting officer)	April 29, 2019
/S/ AMIT KUMAR Amit Kumar, Ph.D.	Chairman of the Board of Directors	April 29, 2019
/S/ TOMAS MARSH G. Thomas Marsh	Director	April 29, 2019
/S/ KIM J. HUNTLEY Kim J. Huntley	Director	April 29, 2019