

ASCENT SOLAR TECHNOLOGIES, INC.

FORM 10-Q (Quarterly Report)

Filed 05/06/10 for the Period Ending 03/31/10

Address	12300 GRANT STREET THORNTON, CO 80241
Telephone	(720) 872-5000
CIK	0001350102
Symbol	ASTI
SIC Code	3674 - Semiconductors and Related Devices
Industry	Semiconductors
Sector	Technology
Fiscal Year	12/31

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

FORM 10-Q

(Mark One)

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

For the quarterly period ended March 31, 2010

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

Ascent Solar Technologies, Inc.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

20-3672603
(I.R.S. Employer
Identification No.)

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

80241
(Zip Code)

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

Indicate by check mark whether the issuer (1) filed all reports required to be filed by Section 13 or 15(d) of the Exchange Act during the past 12 months (or for such shorter period that the registrant was required to file such report(s), 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 April 16, 2010, there were 26,701,422 shares of our common stock issued and outstanding.

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PART I. FINANCIAL INFORMATION

Item 1. Condensed Financial Statements

ASCENT SOLAR TECHNOLOGIES, INC.
(A Development Stage Company)
CONDENSED BALANCE SHEETS
(Unaudited)

	March 31, 2010	December 31, 2009
ASSETS		
Current Assets:		
Cash and cash equivalents	\$ 30,355,587	\$ 21,717,215
Investments	21,262,972	38,788,671
Accounts receivable	117,683	133,846
Related party receivable	22,826	21,570
Other current assets	710,896	817,629
Total current assets	52,469,964	61,478,931
Property, Plant and Equipment:		
Property, plant and equipment	108,740,120	106,726,525
Less accumulated depreciation and amortization	(5,089,326)	(4,095,762)
	103,650,794	102,630,763
Other Assets		
Deposits on manufacturing equipment	8,124,419	8,316,193
Patents, net of amortization of \$12,790 and \$11,511, respectively	198,206	167,030
Other non-current assets	66,875	67,812
	8,389,500	8,551,035
Total Assets	<u>\$164,510,258</u>	<u>\$172,660,729</u>
LIABILITIES AND STOCKHOLDERS' EQUITY		
Current Liabilities:		
Accounts payable	\$ 482,445	\$ 692,557
Related party payables	98,991	195,954
Accrued expenses	1,500,969	2,151,875
Accrued property, plant and equipment	5,786,237	7,992,479
Current portion of long-term debt	221,071	217,463
Current portion of long-term debt – related party	350,000	—
Total current liabilities	8,439,713	11,250,328
Long-Term Debt	7,038,747	7,095,386
Long-Term Debt - Related Party	400,000	—
Commitments and Contingencies (Notes 8 & 14)		
Stockholders' Equity:		
Preferred stock, \$0.0001 par value, 25,000,000 shares authorized, no shares outstanding	—	—
Common stock, \$0.0001 par value, 75,000,000 shares authorized; 26,687,421 and 26,583,845 shares issued and outstanding at March 31, 2010 and December 31, 2009, respectively	2,669	2,658
Additional paid in capital	201,260,509	200,344,727
Deficit accumulated during the development stage	(52,633,106)	(46,029,358)
Accumulated other comprehensive income	1,726	(3,012)
Total stockholders' equity	148,631,798	154,315,015
Total Liabilities and Stockholders' Equity	<u>\$164,510,258</u>	<u>\$172,660,729</u>

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

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ASCENT SOLAR TECHNOLOGIES, INC.
(A Development Stage Company)
CONDENSED STATEMENTS OF OPERATIONS
(Unaudited)

	For the Three Months Ended March 31,		For the Period from Inception (October 18,2005) Through March 31, 2010
	2010	2009	
Research and Development Revenues	\$ 216,196	\$ 516,133	\$ 4,182,945
Costs and Expenses			
Research and development	4,558,319	3,195,653	35,768,012
General and administrative	2,131,105	1,580,878	23,368,775
Total Costs and Expenses	6,689,424	4,776,531	59,136,787
Loss from Operations	(6,473,228)	(4,260,398)	(54,953,842)
Other Income/(Expense)			
Interest expense	—	(83,345)	(1,087,293)
Interest income	12,110	333,367	4,387,580
Realized gain (loss) on investments	—	—	27,280
Realized loss on forward contracts	(142,630)	(556,373)	(1,006,831)
Unrealized gain on forward contracts	—	154,191	—
	(130,520)	(152,160)	2,320,736
Net Loss	\$ (6,603,748)	\$ (4,412,558)	\$(52,633,106)
Net Loss Per Share (Basic and diluted)	\$ (0.25)	\$ (0.21)	
Weighted Average Common Shares Outstanding (Basic and diluted)	26,674,109	20,960,497	

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

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ASCENT SOLAR TECHNOLOGIES, INC.
(A Development Stage Company)

CONDENSED STATEMENTS OF STOCKHOLDERS' EQUITY AND COMPREHENSIVE INCOME (LOSS)
(Unaudited)

For the Period from inception (October 18, 2005) through December 31, 2009 and for the Three Months Ended March 31, 2010

	Common Stock		Preferred Stock		Additional Paid-In Capital	Accumulated Deficit	Accumulated Other Comprehensive Income	Total Stockholders' Equity
	Shares	Amount	Shares	Amount				
Balance at inception, October 18, 2005	—	—	—	—	—	—	—	—
Proceeds from sale of common stock (11/05 @ \$.04 per share)	972,000	\$ 97	—	\$ —	\$ 38,783	\$ —	\$ —	\$ 38,880
Stock based compensation:								
Founders stock	—	—	—	—	933,120	—	—	933,120
Stock options	—	—	—	—	26,004	—	—	26,004
Net loss	—	—	—	—	—	(1,207,234)	—	(1,207,234)
Balance, December 31, 2005	<u>972,000</u>	<u>\$ 97</u>	<u>—</u>	<u>\$ —</u>	<u>\$ 997,907</u>	<u>\$ (1,207,234)</u>	<u>\$ —</u>	<u>\$ (209,230)</u>
Transfer of assets at historical cost (1/06 @ \$0.03 per share)	1,028,000	103	—	—	31,097	—	—	31,200
Proceeds from IPO (7/06 @ \$5.50 per unit)	3,000,000	300	—	—	16,499,700	—	—	16,500,000
IPO costs	—	—	—	—	(2,392,071)	—	—	(2,392,071)
Stock issued to bridge loan lenders (7/06 @ \$2.75 per share)	290,894	29	—	—	799,971	—	—	800,000
Exercise of stock options (9/06 & 12/06 @ \$0.10 per share)	31,200	3	—	—	3,117	—	—	3,120
Stock based compensation—stock options	—	—	—	—	348,943	—	—	348,943
Net loss	—	—	—	—	—	(4,180,912)	—	(4,180,912)
Balance, December 31, 2006	<u>5,322,094</u>	<u>\$ 532</u>	<u>—</u>	<u>\$ —</u>	<u>\$16,288,664</u>	<u>\$ (5,388,146)</u>	<u>\$ —</u>	<u>\$10,901,050</u>
Exercise of stock options (1/07 - 12/07 @ \$.10) (7/07 - 12/07 @ \$4.25) (9/07 - 12/07 @ \$2.51 - \$2.76)	169,963	17	—	—	346,417	—	—	346,434
Conversion of Class A public warrants at \$6.60	3,098,382	310	—	—	20,449,011	—	—	20,449,321
Redemption of Class A public warrants at \$0.25 per share	—	—	—	—	(48,128)	—	—	(48,128)
Conversion of Class B public warrants at \$11.00 per share	11,000	1	—	—	120,999	—	—	121,000
Stock based compensation—stock options	—	—	—	—	1,734,879	—	—	1,734,879
Proceeds from private placement:								
Common stock (3/07 @ \$5.77 and 8/07 @ \$7.198)	2,534,462	254	—	—	15,962,003	—	—	15,962,257
Class B public warrants (8/07 @ \$1.91)	—	—	—	—	3,754,468	—	—	3,754,468
Private placement costs	—	—	—	—	(75,807)	—	—	(75,807)
Exercise of representative's warrants (9/07 - 11/07 @ \$6.60 per unit)	300,000	30	—	—	1,979,970	—	—	1,980,000
Net loss	—	—	—	—	—	(6,503,419)	—	(6,503,419)
Balance, December 31, 2007	<u>11,435,901</u>	<u>\$1,144</u>	<u>—</u>	<u>\$ —</u>	<u>\$60,512,476</u>	<u>\$(11,891,565)</u>	<u>\$ —</u>	<u>\$48,622,055</u>

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

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ASCENT SOLAR TECHNOLOGIES, INC.
(A Development Stage Company)

CONDENSED STATEMENTS OF STOCKHOLDERS' EQUITY AND COMPREHENSIVE INCOME (LOSS)—(Continued)
(Unaudited)

For the Period from inception (October 18, 2005) through December 31, 2009 and for the Three Months Ended
March 31, 2010

	Common Stock		Preferred Stock		Additional Paid-In Capital	Accumulated Deficit	Accumulated Other Comprehensive Income	Total Stockholders' Equity
	Shares	Amount	Shares	Amount				
Balance, December 31, 2007	11,435,901	\$1,144	—	\$ —	\$ 60,512,476	\$(11,891,565)	\$ —	\$ 48,622,055
Components of comprehensive loss								
Unrealized gain on investments	—	—	—	—	—	—	331,068	331,068
Net loss	—	—	—	—	—	(13,215,076)	—	(13,215,076)
Total comprehensive loss								<u>(12,884,008)</u>
Exercise of stock options (1/08 - 12/08 @ \$0.10, \$2.73, \$2.90 & \$4.25)	133,137	13	—	—	120,520	—	—	120,533
Issuance of Restricted Stock	69,846	7	—	—	(7)	—	—	—
Conversion of Class B public warrants at \$11.00 per share	98,800	10	—	—	1,086,790	—	—	1,086,800
Stock based compensation	—	—	—	—	1,881,399	—	—	1,881,399
Proceeds from private placement:								
Common stock (3/08 @ \$9.262 & 10/08 @ \$6.176)	4,763,698	476	—	—	36,647,217	—	—	36,647,693
Class B public warrants (3/08 @ \$3.954)	—	—	—	—	6,681,884	—	—	6,681,884
Exercise of representative's warrants (1/08 @ \$6.60 per unit)	75,000	8	—	—	494,992	—	—	495,000
Proceeds from shareholder under Section 16(b)	—	—	—	—	148,109	—	—	148,109
Proceeds from secondary public offering (5/08 @ \$14.00)	4,370,000	437	—	—	61,179,563	—	—	61,180,000
Costs of secondary public offering	—	—	—	—	(4,361,358)	—	—	(4,361,358)
Balance, December 31, 2008	<u>20,946,382</u>	<u>\$2,095</u>	<u>—</u>	<u>\$ —</u>	<u>\$164,391,585</u>	<u>\$(25,106,641)</u>	<u>\$ 331,068</u>	<u>\$139,618,107</u>
Components of comprehensive loss								
Unrealized loss on investments	—	—	—	—	—	—	(334,080)	(334,080)
Net loss	—	—	—	—	—	(20,922,717)	—	(20,922,717)
Total comprehensive loss								<u>(21,256,797)</u>
Exercise of stock options (1/09 - 12/09 @ \$0.10, \$2.76 & \$4.25)	105,169	10	—	—	339,606	—	—	339,616
Issuance of Restricted Stock	147,679	15	—	—	(15)	—	—	—
Stock based compensation	—	—	—	—	2,676,957	—	—	2,676,957
Proceeds from private placement:								
Common stock (10/09 @ \$6.50)	769,230	77	—	—	4,999,918	—	—	4,999,995
Proceeds from public offering (10/09 @ \$6.50)	4,615,385	461	—	—	29,999,542	—	—	30,000,003
Costs of public offering	—	—	—	—	(2,062,866)	—	—	(2,062,866)
Balance, December 31, 2009	<u>26,583,845</u>	<u>\$2,658</u>	<u>—</u>	<u>\$ —</u>	<u>\$200,344,727</u>	<u>\$(46,029,358)</u>	<u>\$ (3,012)</u>	<u>\$154,315,015</u>
Components of comprehensive loss								
Unrealized loss on investments	—	—	—	—	—	—	4,738	4,738
Net loss	—	—	—	—	—	(6,603,748)	—	(6,603,748)
Total comprehensive loss								<u>(6,599,010)</u>
Exercise of stock options (1/10 – 3/10 @ \$0.10)	2,084	1	—	—	395,765	—	—	395,766
Issuance of Restricted Stock	101,492	10	—	—	(10)	—	—	—
Stock based compensation	—	—	—	—	520,027	—	—	520,027

Balance, March 31, 2010	<u>26,687,421</u>	<u>\$2,669</u>	<u>—</u>	<u>—</u>	<u>\$201,260,509</u>	<u>\$(52,633,106)</u>	<u>\$ 1,726</u>	<u>\$148,631,798</u>
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The accompanying notes are an integral part of these condensed financial statements.

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ASCENT SOLAR TECHNOLOGIES, INC.
(A Development Stage Company)
CONDENSED STATEMENTS OF CASH FLOWS
(Unaudited)

	For the Three Months Ended March 31,		For the Period from inception (October 18, 2005) through March 31, 2010
	2010	2009	
Operating Activities:			
Net loss	\$ (6,603,748)	\$ (4,412,558)	\$ (52,633,106)
Adjustments to reconcile net loss to cash used in operating activities:			
Depreciation and amortization	994,843	450,655	5,109,303
Stock based compensation	520,027	409,808	8,121,329
Realized loss on forward contract	142,630	556,373	1,006,831
Unrealized loss (gain) on forward contracts	—	(154,191)	—
Charge off of deferred financing costs to interest expense	—	—	198,565
Charge off of bridge loan discount to interest expense	—	—	800,000
Changes in operating assets and liabilities:			
Accounts receivable	16,163	(112,476)	(117,684)
Related party receivables	(1,256)	(24,765)	(22,826)
Prepaid expenses and other current assets	106,733	68,412	(710,895)
Accounts payable	(210,112)	(30,683)	482,446
Related party payable	(96,963)	101,838	98,990
Accrued expenses	(650,906)	56,583	1,500,971
Net cash used in operating activities	<u>(5,782,589)</u>	<u>(3,091,004)</u>	<u>(36,166,076)</u>
Investing Activities:			
Purchases of available-for-sale-securities	(25,880,603)	(55,441,495)	(865,543,865)
Maturities and sales of available-for-sale securities	43,411,040	67,769,996	844,282,619
Purchase of property, plant and equipment	(702,260)	(3,451,896)	(34,015,213)
Deposits on manufacturing equipment	(2,367,495)	(9,609,345)	(76,862,739)
Patent activity costs	(32,456)	(4,021)	(186,040)
Deposit on building	—	—	(100,000)
Net cash provided by (used in) investing activities	<u>14,428,226</u>	<u>(736,761)</u>	<u>(132,425,238)</u>
Financing Activities:			
Proceeds from bridge loan financing	—	—	1,600,000
Repayment of bridge loan financing	—	—	(1,600,000)
Payment of debt financing costs	—	—	(273,565)
Payment of equity offering costs	—	—	(8,892,103)
Proceeds from debt	—	262,948	7,700,000
Repayment of debt	(53,031)	(33,194)	(440,182)
Repayment of debt-related party	(350,000)	—	(350,000)
Proceeds from shareholder under Section 16(b)	—	—	148,109
Proceeds from issuance of stock and warrants	395,766	1,100	201,102,770
Redemption of Class A warrants	—	—	(48,128)
Net cash provided by financing activities	<u>(7,265)</u>	<u>230,854</u>	<u>198,946,901</u>
Net change in cash and cash equivalents	8,638,372	(3,596,911)	30,355,587
Cash and cash equivalents at beginning of period	21,717,215	32,913,304	—
Cash and cash equivalents at end of period	<u>\$ 30,355,587</u>	<u>\$ 29,316,393</u>	<u>\$ 30,355,587</u>
Supplemental Cash Flow Information:			
Cash paid for interest	<u>\$ —</u>	<u>\$ 82,407</u>	<u>\$ 424</u>
Cash paid for income taxes	<u>\$ —</u>	<u>\$ —</u>	<u>\$ —</u>
Non-Cash Transactions:			
ITN initial contribution of assets for equity	<u>\$ —</u>	<u>\$ —</u>	<u>\$ 31,200</u>
Note with ITN and related capital expenditures	<u>\$ 1,100,000</u>	<u>\$ —</u>	<u>\$ 1,100,000</u>

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

ASCENT SOLAR TECHNOLOGIES, INC.
(A Development Stage Company)
NOTES TO CONDENSED FINANCIAL STATEMENTS
(Unaudited)

NOTE 1. ORGANIZATION

Ascent Solar Technologies, Inc. (Ascent or the Company) 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 1,028,000 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, we believe will be useful in our production of PV modules for our 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. Today, ITN still provides Ascent a limited amount of administrative and technical services.

NOTE 2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Presentation: The Company's activities to date have substantially consisted of raising capital, research and development, establishment of our FAB1 production plant and the development of our FAB2 expansion plant. Revenues to date have been generated from the Company's governmental research and development (R&D) contracts and have not been significant. The Company's planned principal operations to commercialize flexible PV modules have not yet commenced. Accordingly, the Company is considered to be in the development stage and has presented its financial statements in accordance with the accounting guidance for development stage companies that consists of additional disclosure of inception to date activity in our Condensed Statements of Operations, Condensed Statements of Stockholders' Equity and Comprehensive Income (Loss) and Condensed Statements of Cash Flows.

The condensed consolidated balance sheet at December 31, 2009 has been derived from the audited consolidated 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, 2009. For further information, refer to the consolidated financial statements and footnotes thereto included in the Company's Annual Report on Form 10-K for the year ended December 31, 2009.

The Company has performed an evaluation of subsequent events from the balance sheet date of March 31, 2010, through the filing of this report.

Cash Equivalents: The Company considers all highly liquid debt securities purchased with an original maturity of three months or less to be cash equivalents. The Company maintains cash balances which may exceed federally insured limits. The Company does not believe that this results in significant credit risk.

Investments: The Company has classified its investments as "available-for-sale." Such investments are carried at fair value, based on quoted market prices with the unrealized holding gains and losses reported as Accumulated other comprehensive income (loss) in the stockholders' equity section of the Condensed Balance Sheets. Realized gains and losses on sales of securities are computed using the specific identification method. The Company evaluates declines in market value for potential impairment. If the decline results in a value below cost and is determined to be other than temporary, the investment is written down to its impaired value and a new cost basis is established.

Fair Value estimates: The fair value of an asset or liability is the amount at which it could be exchanged or settled in a current transaction between willing parties. The carrying value for cash and cash equivalents, investments, restricted cash, accounts receivable, accounts payable, accrued property and equipment, accrued expenses and other assets and liabilities approximate their fair values due to their short maturities.

Foreign Currency translation: Bank account balances related to our forward contracts are translated to U.S. dollars utilizing the period end exchange rate. Gains or losses on foreign currency translation adjustments in connection with our forward contracts are recorded within realized gain (loss) on forward contracts in Other Income/(Expense) on the Condensed Statement of Operations.

Revenue Recognition: Revenue to date is from governmental research and development contracts under terms that are cost plus fee or firm fixed price. Revenue from cost plus fee contracts is recognized as costs are incurred on the basis of direct costs plus allowable indirect costs and an allocable portion of the firm fixed fee. Revenue from firm fixed price contracts is recognized under the percentage-of-completion method of accounting, with costs and estimated profits included in contract revenue as work is performed. If actual and estimated costs to complete a contract indicate a loss, provision is made currently for the loss anticipated on the contract.

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Patents: At such time as the Company is awarded patents, patent costs are amortized on a straight-line basis over the legal life, or over their estimated useful lives, whichever is shorter. As of March 31, 2010, the Company had \$198,206 of net patent costs, of which \$23,022 represent costs net of amortization incurred for an awarded patent, and the remaining \$175,184 represents costs incurred for patent applications filed. Amortization expense for the three months ended March 31, 2010 and 2009 was \$1,279.

Property, Plant and Equipment: Property, plant and equipment are recorded at the original cost to the Company. Assets are being depreciated over estimated useful lives of three to ten years using the straight-line method, commencing when the asset is placed in service. Leasehold improvements are depreciated over the shorter of the remainder of the lease term or the life of the improvements. Upon retirement or disposal, the cost of the asset disposed of and the related accumulated depreciation are removed from the accounts and any gain or loss is reflected in income. Expenditures for repairs and maintenance are expensed as incurred.

The Company computes depreciation expense using the straight-line method over the estimated useful lives of the assets, as presented in the table below. We amortize leasehold improvements over the shorter of their estimated useful lives or the remaining term of the lease.

	Useful Lives in Years
Buildings	40
Manufacturing machinery and equipment	5 - 10
Furniture, fixtures, computer hardware/software	3 - 7
Leasehold improvements	life of lease

Interest Capitalization: We capitalize interest cost as part of the historical cost of acquiring or constructing certain assets during the period of time required to get the asset ready for its intended use. During 2009 and the first quarter of 2010, these assets consisted of property, plant and equipment. We capitalize interest to the extent that expenditures to acquire or construct an asset have occurred and interest cost has been incurred.

Long-lived assets: We analyze our long-lived tangible assets (property and equipment) and definitive-lived intangible assets (patents) for impairment by assessing if the asset cost will be recoverable. Events that might cause impairment would include significant current period operating or cash flow losses associated with the use of a long-lived asset or group of assets combined with a history of such losses, significant changes in the manner of use of assets and significant negative industry or economic trends.

Risks and Uncertainties: The Company's operations are subject to certain risks and uncertainties, including those associated with: the ability to meet obligations; continuing losses; fluctuation in operating results; funding expansions; strategic alliances; financing arrangement terms that may restrict operations; regulatory issues; and competition. The credit markets continue to be depressed and have made it more difficult to raise additional capital to fulfill our expansion business plan. Additionally, U.S. government contracts may be terminated prior to completion of full funding by the U.S. government.

Net loss per Common Share: Basic earnings per share include no dilution and are computed by dividing income available to common stockholders by the weighted-average number of shares outstanding during the period. Diluted earnings per share reflect the potential of securities that could share in the earnings of the Company, similar to fully diluted earnings per share. Common stock equivalents consisting of Class B warrants, IPO warrants (representative warrants), and stock options and unvested restricted stock outstanding as of March 31, 2010 of approximately 12 million shares, have been omitted from loss per share because they are anti-dilutive. Net Loss Per Share was the same for both basic and diluted for the periods ended March 31, 2010 and 2009.

Research and Development Costs: Research and development costs are incurred during the process of researching and developing new products and enhancing our manufacturing processes and consist primarily of compensation and related costs for personnel, materials, supplies and equipment depreciation. We expense these costs as incurred until the resulting product has been completed and tested and is ready for commercial manufacturing. We also incur research and development expenses on our federal government research and development contracts and expense as incurred.

Income Taxes: Deferred income taxes are provided using the liability method whereby deferred tax assets are recognized for deductible temporary differences and operating loss and tax credit carry forwards and deferred tax liabilities are recognized for taxable temporary differences. Temporary differences are the differences between the reported amounts of assets and liabilities and their tax bases. Deferred tax assets are reduced by a valuation allowance when, in the opinion of management, it is more likely than not that some portion or all of the deferred tax assets will not be realized. Deferred tax assets and liabilities are adjusted for the effects of the changes in tax laws and rates as of the date of enactment. Interest and penalties, if applicable, would be recorded in operations.

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The Company has analyzed filing positions in all of the federal and state jurisdictions where it is required to file income tax returns, as well as all open tax years (2005-2008) in these jurisdictions. The Company believes that its income tax filing positions and deductions will be sustained on audit and does not anticipate any adjustments that will result in a material adverse effect on the Company's financial condition, results of operations, or cash flows. Therefore, no reserves for uncertain income tax positions have been recorded.

Stock Based Compensation: The Company measures and recognizes compensation expense for all share-based payment awards made to employees, officers, directors, and consultants based on estimated fair values. The company estimates the fair value of share-based payment awards on the date of grant using an option-pricing model. The value of the portion of the award that is ultimately expected to vest is recognized as expense over the requisite service period in the Company's Condensed Statements of Operations. Stock based compensation is based on awards ultimately expected to vest and is reduced for estimated forfeitures. Forfeitures are estimated at the time of grant and revised, as necessary, in subsequent periods if actual forfeitures differ from those estimates. For purposes of determining estimated fair value of share-based payment awards on the date of grant the Company uses the Black-Scholes option-pricing model (Black-Scholes Model) for option awards. The Black-Scholes Model requires the input of highly subjective assumptions. Because the Company's employee stock options may have characteristics significantly different from those of traded options, and because changes in the subjective input assumptions can materially affect the fair value estimate, in management's opinion, the existing models may not provide a reliable single measure of the fair value of the Company's employee stock options. Management will continue to assess the assumptions and methodologies used to calculate estimated fair value of share-based compensation. Circumstances may change and additional data may become available over time, which result in changes to these assumptions and methodologies, which could materially impact the Company's fair value determination. We estimate the fair value of our restricted stock awards as our stock price on the grant date.

The accounting guidance for stock based compensation may be subject to further interpretation and refinement over time. There are significant differences among option valuation models, and this may result in a lack of comparability with other companies that use different models, methods and assumptions. If factors change and the Company employs different assumptions in the accounting for stock based compensation in future periods, or if the Company decides to use a different valuation model, the compensation expense that the Company records in the future may differ significantly from what it has recorded in the current period and could materially affect its loss from operations, net loss and net loss per share.

Comprehensive income (loss): Our comprehensive income (loss) consists of our net income (loss) and changes in unrealized gains or losses on available-for-sale investments, the impact of which has been excluded from net loss. We present our comprehensive income (loss) in the Condensed Statements of Stockholders' Equity and Comprehensive Income (Loss). Our accumulated other comprehensive income (loss) is presented as a component of equity in our Condensed Balance Sheets and consists of the cumulative amount of unrealized gains or losses on available-for-sale investments that we have incurred since the inception of our business.

Reclassifications: Certain reclassifications have been made to the 2009 financial information to conform to the 2010 presentation.

Use of Estimates: The preparation of financial statements in conformity with generally accepted accounting principles 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 financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates. Actual results could differ from those estimates and operating results for the three months ended March 31, 2010 and are not necessarily indicative of the results that may be expected for the year ending December 31, 2010.

Unaudited Information: The accompanying interim financial information as of March 31, 2010 and for the three months ended March 31, 2010 and 2009 and the period from inception (October 18, 2005) through March 31, 2010 was taken from the Company's books and records without audit. However, in the opinion of management, such information includes all adjustments (consisting only of results of normal recurring accruals) that are necessary to fairly state the financial position of the Company as of March 31, 2010 and the results of operations for the three months ended March 31, 2010 and 2009 and the period from inception (October 18, 2005) through March 31, 2010.

Recent Accounting Pronouncements: In January 2010, the FASB issued ASU 2010-06, *Fair Value Measurements and Disclosures (Topic 820)—Improving Disclosures about Fair Value Measurements*. This ASU requires new disclosures and clarifies certain existing disclosure requirements about fair value measurements. ASU 2010-06 requires a reporting entity to disclose significant transfers in and out of Level 1 and Level 2 fair value measurements, to describe the reasons for the transfers and to present separately information about purchases, sales, issuances and settlements for fair value measurements using significant unobservable inputs. ASU 2010-06 is effective for interim and annual reporting periods beginning after December 15, 2009, except for the disclosures about purchases, sales, issuances and settlements in the roll forward of activity in Level 3 fair value measurements, which is effective for interim and annual reporting periods beginning after December 15, 2010; early adoption is permitted. We do not expect that the adoption of ASU 2010-06 will have a material impact on our financial position, results of operations or cash flows.

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NOTE 3. LIQUIDITY AND CONTINUED OPERATIONS

As discussed in Note 1, the Company is in the development stage and is currently incurring significant losses from operations. As of March 31, 2010, the Company had \$51.6 million in cash and investments. We intend to use approximately \$13.8 million in 2010 and approximately \$25 million in 2011 and 2012 on final payments to our equipment suppliers and shipping and installation costs for our FAB2 production line.

The Company commenced limited production on its FAB1 production line in the first quarter of 2009. We do not expect that sales revenue from the FAB1 production line will be sufficient to support operations and cash requirements, and it is unlikely that sales revenue will support operating cash requirements until we achieve actual full production capacity on our FAB2 production line.

The Company expects current cash and investments will be sufficient to fund operations and capital expenditures through 2010. Changes in the level of expected operating losses, the timing of planned capital expenditures or other factors may negatively impact our cash flows and reduce current cash and investments faster than anticipated. The Company expects to raise additional capital during 2010.

NOTE 4. FAIR VALUE MEASUREMENTS

Fair value is defined as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. Valuation techniques used to measure fair value must maximize the use of observable inputs and minimize the use of unobservable inputs. A fair value hierarchy based on three levels of inputs, of which the first two are considered observable and the last unobservable, that may be used to measure fair value which are the following:

- Level 1—Quoted prices in active markets for identical assets or liabilities.
- Level 2—Inputs other than Level 1 that are observable, either directly or indirectly, such as quoted prices for similar assets or liabilities; quoted prices in markets that are not active; or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities.
- Level 3—Unobservable inputs that are supported by little or no market activity and that are significant to the fair value of the assets or liabilities.

The following table represents the Company's fair value hierarchy for its financial assets measured at fair value on a recurring basis and its classification on the balance sheet as of March 31, 2010:

	Level 1	Level 2	Level 3	Total	Cash Equivalents	Investments
Financial Assets:						
U.S. government securities	\$ 4,564,306	\$12,299,785	\$ —	\$16,864,091	\$ 2,499,664	\$14,364,427
Money market funds	5,803,492	—	—	5,803,492	5,803,492	—
Corporate securities	—	23,518,613	—	23,518,613	16,620,068	6,898,545
	<u>\$10,367,798</u>	<u>\$35,818,398</u>	<u>\$ —</u>	<u>\$46,186,196</u>	<u>\$24,923,224</u>	<u>\$21,262,972</u>

As of March 31, 2010, the Company held securities issued by U.S. government agencies (AAA/Aaa ratings) and A-1/A-1+ rated corporate notes. Approximately \$35.8 million of these securities are classified as Level 2 because the Company does not believe that it is possible to obtain a firm, up-to-date price of such securities from, for an example, a major exchange; and as a result, the Company relies on its brokerage firm and investment manager to report its fair value of such securities at the end of each month. Investments have not been transferred between levels.

NOTE 5. INVESTMENTS

Securities held by the Company as of March 31, 2010 are classified as available-for-sale and consisted of U.S. government securities and corporate securities. Such investments are carried at fair value, based on quoted market prices with the unrealized holding gains and losses reported as Accumulated other comprehensive income (loss) in the stockholders' equity section of the Condensed Balance Sheets. Realized gains and losses on sales of securities are computed using the specific identification method. The Company evaluates declines in market value for potential impairment. If the decline results in a value below cost and is determined to be other than temporary, the investment is written down to its impaired value and a new cost basis is established. A summary of available-for-sale securities as of March 31, 2010 is as follows:

	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Estimated Fair Value
U.S. government securities	\$14,362,768	\$ 3,349	\$ (1,690)	\$ 14,364,427
Corporate securities	6,898,656	—	(111)	6,898,545
Total	<u>\$21,261,424</u>	<u>\$ 3,349</u>	<u>\$ (1,801)</u>	<u>\$ 21,262,972</u>

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Contractual maturities of our available-for-sale investments as of March 31, 2010 were all one year or less as follows:

	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Estimated Fair Value
One year or less	\$21,261,424	\$ 3,349	\$ (1,801)	\$21,262,972

We typically invest in highly rated securities with low probabilities of default. Our investment policy specifies minimum investment grade criteria, types of acceptable investments, concentration limitations and duration guidelines.

All securities having an unrealized loss as of March 31, 2010 have been in a loss position for less than twelve months.

NOTE 6. ACCOUNTS RECEIVABLE

Effective January 1, 2007, the Company completed the novation, or transfer, of approximately \$3.5 million in government funded research and development contracts (R&D contracts) from ITN to the Company. The various contracts are being performed for U.S. government customers that include the Air Force Research Laboratory and the National Aeronautics and Space Administration. In addition to approximately \$1.6 million of future revenues to be provided under the transferred contracts, the key scientists, engineers, and process technicians responsible for deliverables under the transferred contracts were also transferred from ITN to become full-time Ascent employees. In 2007 through 2009, additional R&D contracts were awarded to the Company of approximately \$3.8 million.

Accounts receivable consists mainly of billed and unbilled amounts. Management deems all accounts receivable to be collectible.

The following table summarizes components of accounts receivable:

	As of March 31, 2010	As of December 31, 2009
Billed receivables	\$ 138,938	\$ 115,474
Unbilled receivables	(21,255)	18,372
Total	\$ 117,683	\$ 133,846

Unbilled receivables represent costs incurred but not yet billed, including retainage amounts by the government on contracts that have not been closed out at the end of the period and billings in excess of costs incurred on firm fixed price contracts billed based on deliverables or a pre-determined schedule.

Provisional Indirect Cost Rates —During 2008 and 2009, the Company billed the government under cost-based R&D contracts at provisional billing rates which permit the recovery of indirect costs. These rates are subject to audit on an annual basis by the government agencies' cognizant audit agency. The cost audit will result in the negotiation and determination of the final indirect cost rates. The Company has not been audited and has not received final rate determinations for the years ended December 31, 2007, 2008 or 2009. The final rates, if different from the provisional rates, may create an additional receivable or liability. In the opinion of management, re-determination of any cost-based contracts will not have a material effect on the Company's financial position or results of operations.

Contract Status —The Company has authorized but not completed contracts on which work is in process as follows:

	As of March 31, 2010	As of December 31, 2009
Total contract price of initial contract awards, including exercised options and approved change orders (modifications)	\$ 7,262,134	\$ 7,262,134
Completed to date(1)	(5,862,390)	(5,688,064)
Authorized backlog	\$ 1,399,744	\$ 1,574,070

(1) Includes work performed by ITN prior to January 1, 2007.

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NOTE 7. PROPERTY, PLANT AND EQUIPMENT

The following table summarizes property, plant and equipment:

	As of March 31, 2010	As of December 31, 2009
Building	\$ 19,340,646	\$ 19,336,263
Furniture, fixtures, computer hardware and computer software	1,083,556	1,057,240
Manufacturing machinery and equipment	30,603,073	27,824,678
Leasehold improvements	840,729	840,729
Net depreciable property, plant and equipment	51,868,004	49,058,910
Manufacturing machinery and equipment in progress	56,872,116	57,667,615
Property, plant and equipment	108,740,120	106,726,525
Less: Accumulated depreciation and amortization	(5,089,326)	(4,095,762)
Net property, plant and equipment	<u>\$103,650,794</u>	<u>\$ 102,630,763</u>

Approximately \$56.9 million (including capitalized interest) of equipment for our FAB2 production line was received through March 31, 2010 and is reflected above as Manufacturing machinery and equipment in progress until we qualify the tools. Depreciation and amortization expense for the three months ended March 31, 2010 and 2009 was \$993,564 and \$448,437, respectively.

We incurred and capitalized interest costs related to our construction loan as follows during the three months ended March 31, 2010 and the year ended December 31, 2009.

	As of March 31, 2010	As of December 31, 2009
Interest cost incurred	\$ 121,309	\$ 456,534
Interest cost capitalized	(121,309)	(456,534)
Interest expense, net	<u>\$ —</u>	<u>\$ —</u>

NOTE 8. DEPOSITS ON MANUFACTURING EQUIPMENT

As of March 31, 2010, deposits on manufacturing equipment were \$8.1 million related to purchase of equipment not yet delivered for our FAB2 production line. Approximately \$1.1 million of the deposits on equipment relates to manufacturing equipment that has or will be received by the company in 2010. The remaining \$7.0 million relates to manufacturing equipment deposits for equipment to be delivered in future periods. The equipment purchase agreements are conditional purchase obligations that have milestone-based deliverables, such as the Company's acceptance of design requirements and successful installation and commissioning of the equipment.

NOTE 9. DEBT

In January 2006, the Company completed a \$1.6 million bridge loan (Bridge Financing) from lenders (Bridge Noteholders) to help meet the Company's working capital needs. The loans (Bridge Loans) accrued interest at an annual rate of 10% and were due and payable upon the earlier of January 2007 or the completion of Ascent's public offering of equity securities with gross proceeds of at least \$5,000,000 (Qualified Public Offering). In July 2006, with the proceeds from a Qualified Public Offering (i.e., the Company's initial public offering or IPO), the Company repaid the Bridge Loans including accrued interest.

In connection with the Bridge Loans, the Company issued rights (Bridge Rights) to the Bridge Noteholders. One Bridge Right was issued for every \$25,000 loaned. In July 2006, upon completion of the IPO, the holders of Bridge Rights received restricted units. The holder of each Bridge Right received that number of units equal to \$25,000 divided by the IPO price of the units of \$5.50 for a total of 290,894 units. The units are identical to those offered in Ascent's IPO and consisted of one share of common stock, one redeemable Class A public warrant and two non-redeemable Class B warrants. In September 2006, the SEC declared effective the Company's Registration Statement on Form SB-2 (Reg. No. 333-137008) for the shares and warrants underlying the 290,894 units issued in connection with the Bridge Rights. The Registration Statement on Form SB-2 subsequently was converted to a Registration Statement on Form S-3.

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Paulson Investment Company, Inc. acted as the placement agent for the Bridge Financing. The Company paid Paulson Investment Company, Inc. a commission equal to 10% of the gross proceeds from the Bridge Financing, plus reasonable out-of-pocket expenses. The Bridge Loans and the Bridge Rights were allocated for accounting purposes based on the relative fair values of the Bridge Loans without the Bridge Rights and the Bridge Rights themselves at the time of issuance. The actual value of the Bridge Loans and the Bridge Rights was computed at \$1,600,000 each for a total value of \$3,200,000. Since they were each of equal value, the \$1,600,000 of proceeds was allocated 50% to the Bridge Loans and 50% to the Bridge Rights (*i.e.*, \$800,000 each). The Bridge Rights of \$800,000 were accounted for as paid-in capital.

The discount for the commission (\$160,000) and the Bridge Rights (\$800,000) were amortized into interest expense over the life of the loans. In July 2006 with the repayment of the Bridge Loans, the remaining unamortized balance of the discount for commission and Bridge Rights of \$960,000 was recognized as interest expense in the Condensed Statements of Operations.

On February 8, 2008, the Company acquired an approximately 120,000 square foot 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 with the Colorado Housing Authority (CHFA) (Construction Loan), which provided the Company borrowing availability of up to \$7.5 million for the building and building improvements. The Company paid approximately \$1.3 million in cash and was advanced approximately \$4.2 million from CHFA to fund the initial acquisition of the property. The Construction Loan terms required payments of interest only at 6.6% on the outstanding balance. On January 29, 2009, the Construction Loan was converted to a permanent loan pursuant to a loan modification agreement between the Company and CHFA (Permanent Loan). The Permanent Loan has an interest rate of 6.6% and the principal will be amortized over a period of approximately 19 years and 1 month consistent with a maturity date 20 years after the incurrence of the promissory note and construction loan agreement on February 8, 2008. An additional \$75,000 loan commitment fee was paid in 2008 and is reflected on the balance sheet in non-current assets. This fee is being amortized into interest expense over the 20 year life of the Construction and Permanent Loan. We will incur a prepayment penalty if the Permanent Loan is prepaid prior to December 31, 2015 equal to the sum of (i) the present value of the total principal and interest payments due under the Note from the prepayment date to December 31, 2015, and (ii) the present value of the remaining principal balance of the Note that would have been due as of December 31, 2015, less the principal amount of the Note outstanding. Further, pursuant to certain negative covenants contained in the deed of trust associated with the permanent loan, until the Permanent Loan is repaid and all of our secured obligations performed in full, we 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 our officers, shareholders, directors or employees.

The outstanding balance of the Loan was \$7,259,818 as of March 31, 2010. Our future principal payments are due as follows:

2010	\$ 164,432
2011	232,257
2012	248,059
2013	264,935
2014	282,960
Thereafter	6,067,175
	<u>\$7,259,818</u>

NOTE 10. DERIVATIVE FINANCIAL INSTRUMENTS

The Company is actively engaged in purchasing manufacturing equipment internationally and is exposed to foreign currency risk. In July 2008 and March 2009, the Company entered into fair value hedges utilizing forward contracts designed to match scheduled contractual payments to equipment suppliers which are denominated in Euros and Yen. The total notional value of the Euro forward contracts was €6.4 million with various contract settlement dates beginning September 15, 2008 through July 31, 2009. The total notional value of the Yen forward contracts was ¥521.4 million with contract settlement dates of March and April 2009. The Company elected not to use hedge accounting and accordingly, the unrealized gain and loss on each forward contract was determined at each balance sheet date based upon current market rates and is reported as an Unrealized gain or loss on forward contracts in the Condensed Statements of Operations. Upon settlement of the forward contracts, a realized gain or loss is reported in the Condensed Statements of Operations as a Realized gain or (loss) on forward contracts. For the three months ended March 31, 2010 and 2009 the realized loss was \$142,630 and \$556,373, respectively and the unrealized gain was \$0 and \$154,191, respectively.

Although the hedging activity is designed to fix the dollar amount to be expended, the asset purchased is recorded at the spot 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 a loss on forward contract. During 2009, forward contracts for delivery of €4,800,000 and ¥521,410,000 were settled. Included in cash

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and cash equivalents is \$3,379,404 related to €2,502,150 and \$1,426,713 related to ¥133,440,440 held as of March 31, 2010 in our bank account for future payments to our equipment suppliers. Period end foreign currency translation adjustments related to the Euros and Yen on deposit in our bank account are reflected as a Realized gain or (loss) on forward contracts in our Condensed Statements of Operations. In connection with the forward contracts, the Company established a \$2.3 million deposit account with the bank holding the forward contracts. During the fourth quarter 2009, the forward contracts settled and the restricted cash was released and transferred into our operational cash account. Derivative financial instruments are not used for speculative or trading purposes.

NOTE 11. STOCKHOLDERS' EQUITY

The Company's authorized capital stock consists of 75,000,000 shares of common stock, \$0.0001 par value, and 25,000,000 shares of preferred stock, \$0.0001 par value. Each share of common stock has the right to one vote. In November 2005, the Company issued 972,000 shares of common stock at a price of \$0.04 per share. The Company has recorded for financial statement purposes the 972,000 shares at a fair value of \$1.00 per share. The Condensed Statements of Stockholders' Equity reflects compensation expense of \$933,120 related to the recording of this stock transaction. In January 2006, in consideration of certain asset transfers, licenses and service agreements, the Company issued 1,028,000 shares of common stock to ITN Energy Systems, Inc.

Preferred stock, \$0.0001 par value per share, may be issued in classes or series. Designations, powers, preferences, rights, qualifications, limitations and restrictions are determined by the Company's Board of Directors.

Initial Public Offering: On July 10, 2006, the SEC declared effective the Company's Registration Statement on Form SB-2 (Reg. No. 333-131216), and the Company completed its IPO of 3,000,000 units on July 14, 2006. Each unit consisted of one share of common stock, one redeemable Class A warrant and two non-redeemable Class B warrants. The managing underwriter of the IPO was Paulson Investment Company, Inc. The IPO price was \$5.50 per unit. The gross proceeds of the offering were \$16,500,000. Ascent's net proceeds from the offering, after deducting the underwriter's discount of \$1,097,250 and other fees and expenses, aggregated approximately \$14,000,000.

The common stock and Class A and Class B warrants traded only as a unit through August 9, 2006, after which the common stock, the Class A warrants and the Class B warrants began trading separately.

Class A warrants. On May 24, 2007, the Company publicly announced that it intended to redeem its outstanding Class A warrants. The Class A warrants became eligible for redemption by the Company at \$0.25 per warrant on April 16, 2007, when the last reported sale price of the Company's common stock had equaled or exceeded \$9.35 for five consecutive trading days. There were 3,290,894 Class A warrants issued in connection with the Company's initial public offering, including the warrants issued to the Bridge Noteholders. The Class A warrants were exercisable at a price of \$6.60 per share.

The exercise period ended June 22, 2007. During the exercise period, 3,098,382 Class A warrants (94.1% of the total outstanding) were exercised for an equal number of shares of common stock, and the Company received \$20,449,321 in proceeds from the warrant exercises. At the end of the exercise period, 192,512 Class A warrants remained outstanding. The Company has set aside funds with its warrant transfer agent to redeem the outstanding warrants for \$0.25 per warrant, or a total cost of \$48,128. As of March 31, 2010, 9,090 Class A warrants remain unredeemed.

Class B warrants. The Class B warrants included in the units became exercisable on August 10, 2006. The exercise price of a Class B public warrant is \$11.00. The Class B warrants expire on July 10, 2011. The Company does not have the right to redeem the Class B warrants. During the years ended December 31, 2008 and 2007, 98,800 and 11,000 Class B warrants, respectively were exercised resulting in proceeds to the Company of approximately \$1,086,800 and \$121,000 respectively. As of March 31, 2010, 10,502,583 Class B warrants were outstanding.

IPO warrants. Warrants to purchase 300,000 units at \$6.60 were issued to underwriters of the Company's initial public offering in July 2006 (representative's warrants). A unit consists of one share of common stock, one Class A redeemable warrant and two Class B non-redeemable warrants. The warrants expire on July 10, 2011. Upon exercise of the representative's warrants, holders will be forced to choose whether to exercise the underlying Class A warrants or hold them for redemption. As noted above, on June 25, 2007, any Class A warrants then outstanding expired and became redeemable.

Representative's warrants to purchase 150,000 units have been exercised as of December 31, 2007, as have the 150,000 underlying Class A warrants resulting in an issuance of 300,000 shares of common stock and 300,000 Class B warrants for total proceeds to the Company of \$1.98 million. During the year ended December 31, 2008 an additional 37,500 units have been exercised, as have the 37,500 underlying Class A warrants resulting in an issuance of 75,000 shares of common stock and 75,000 Class B warrants for total proceeds to the Company of \$495,000. To the extent that holders of representative's warrants are entitled to receive Class A warrants upon exercise of the representative's warrants, those warrants will be immediately subject to call for redemption at \$0.25 per warrant. The holders will then have to decide whether to exercise their Class A warrants or hold them for redemption. As of March 31, 2010, 112,500 representative's warrants remained unexercised.

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Private Placement of Securities: The Company completed a private placement of securities with Norsk Hydro Produksjon AS (Hydro) in March 2007. Hydro is a subsidiary of Norsk Hydro ASA. Hydro purchased 1,600,000 shares of the Company's common stock (representing 23% of the Company's outstanding common stock post transaction) for an aggregate purchase price of \$9,236,000. The Company recorded \$75,807 of costs associated with the private placement as a reduction to Additional paid in capital on the Company's Balance Sheets. In connection with the private placement, Hydro was granted options to purchase additional shares and warrants.

In August 2007, Hydro acquired an additional 934,462 shares of the Company's common stock and 1,965,690 Class B warrants through the exercise of an option previously granted to Hydro and approved by Ascent's stockholders in June 2007. Gross proceeds to the Company were \$10.48 million, and reflected per share and per warrant purchase prices equal to the average of the closing bids of each security, as reported by NASDAQ, for the five consecutive trading days preceding exercise. After acquiring these additional shares, Hydro again held 23% of the total outstanding common shares, after its holdings were diluted as the result of the redemption of Class A warrants and 23% of total outstanding Class B warrants. Pursuant to a second option that was approved by Ascent's stockholders in June 2007, beginning December 13, 2007, Hydro was entitled to purchase additional shares and Class B warrants up to a maximum of 35% of each class of security.

In March 2008, Hydro acquired an additional 2,341,897 shares of the Company's common stock and 1,689,905 Class B warrants through the exercise of the second option previously granted to Hydro and approved by Ascent's stockholders in June 2007, resulting in Hydro ownership of approximately 35% of each class of security. Gross proceeds to the Company were \$28.4 million, and reflected per share and per warrant purchase prices were equal to the average of the closing bids of each security, as reported by NASDAQ, for the five consecutive trading days preceding exercise. As a result of the Company's Secondary Public Offering in May 2008, Hydro's holdings were diluted to approximately 27%.

On October 8, 2008, Hydro acquired an additional 2,421,801 shares of the Company's common stock. The purchase resulted in a return to Hydro's ownership of approximately 35% of the Company's common stock. Gross proceeds to the company from the follow on investment were approximately \$15 million, and reflect per share purchase prices equal to the average of the closing bids of each security, as reported by NASDAQ, for the five consecutive trading days preceding exercise. Until June 15, 2009, the second option entitles Hydro to purchase from the Company additional restricted shares of common stock and Class B warrants to maintain ownership of up to 35% of issued and outstanding common stock and Class B warrants.

On September 29, 2009, the Company entered into a securities purchase agreement with Hydro under which the Company agreed to sell, and Hydro agreed to purchase, 769,230 restricted shares of the Company's common stock for approximately \$5.0 million in a private placement exempt from registration under the Securities Act. The restricted shares were sold to Hydro at a per share price equal to \$6.50. The private placement closed on October 6, 2009, at which time the Company and Hydro executed a Registration Rights Agreement, pursuant to which Hydro will be granted demand and piggy-back registration rights.

Secondary Public Offerings: On May 15, 2008, the SEC declared effective the Company's Registration Statement on Form S-3 (Reg. No. 333-149740), and the Company completed a secondary public offering of 4,370,000 shares of common stock, which included 570,000 shares issued upon the underwriter's exercise of their overallotment in full. The offering price of \$14.00 per share resulted in proceeds of \$61,180,000. After deducting underwriting discounts and commissions and offering expenses of approximately \$4,361,000, net proceeds to the Company were approximately \$56,819,000. JP Morgan was the managing underwriter of the secondary public offering.

On October 1, 2009, the Company entered into an underwriting agreement with Barclays Capital Inc. providing for the sale in a firm commitment offering of 4,615,385 shares of the Company's common stock at a price to the public of \$6.50 per share. The offer and sale of the shares were registered under the Securities Act of 1933, as amended, pursuant to the Company's Registration Statement on Form S-3 (File No. 333-156665), which became effective with the SEC on January 16, 2009. The offering closed on October 6, 2009 with net proceeds of approximately \$27.9 million.

Other Proceeds: During the three months ended March 31, 2008, the Company received proceeds from a greater than 10% shareholder equal to the profits realized on the sale of the Company's stock that was purchased and sold within a six month or less time frame. Under Section 16(b) of the Securities and Exchange Act, the profit realized from this transaction by the greater than 10% shareholder must be disgorged to the Company under certain circumstances. The Company has recorded the proceeds received on this transaction of \$148,109 as Additional paid in capital and is reflected on the Statements of Stockholders' Equity.

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As of March 31, 2010, the Company had 26,687,421 shares of common stock and no shares of preferred stock outstanding. We have not declared or paid any dividends through March 31, 2010.

NOTE 12. STOCK BASED COMPENSATION

Stock Option Plan: The Company's 2005 Stock Option Plan, as amended (Stock Option Plan) provides for the grant of incentive or non-statutory stock options to the Company's employees, directors and consultants. Upon recommendation of the Board of directors, the stockholders approved an increase in the total shares of common stock reserved for issuance under the Stock Option Plan from 1,000,000 to 1,500,000 on July 1, 2008 and from 1,500,000 to 2,500,000 on June 30, 2009.

Restricted Stock Plan: The Board of Directors adopted the Company's 2008 Restricted Stock Plan, and it was approved by the stockholders on July 1, 2008. The Restricted Stock Plan reserves up to 750,000 shares of our common stock for restricted stock awards and restricted stock units to eligible employees, directors and consultants of the Company.

The Stock Option Plan and the Restricted Stock Plan are administered by the Compensation Committee of the Board of Directors, which determines the terms of the options and shares, including the exercise price, expiration date, vesting schedule and number of shares. Equity Compensation awards to executive officers and directors are also subject to approval by the Board of Directors. The term of any incentive stock option granted under the Stock Option Plan may not exceed ten years, or five years for options granted to an optionee owning more than 10% of the Company's voting stock. The exercise price of an incentive stock option granted under the Option Plan must be equal to or greater than the fair market value of the shares of the Company's common stock on the date the option is granted. An incentive stock option granted to an optionee owning more than 10% of the Company's voting stock must have an exercise price equal to or greater than 110% of the fair market value of the Company's common stock on the date the option is granted. The exercise price of a non-statutory option granted under the Option Plan must be equal to or greater than 85% of the fair market value of the shares of the Company's common stock on the date the option is granted.

Grants outside Existing Equity Plans: Prior to the adoption of the Restricted Stock Plan, the Board of Directors granted 40,000 restricted stock awards in connection with an executive employment agreement. In July 2009, the Board of Directors granted an inducement award (as defined in NASDAQ Rule 5635(c) (4)) made outside of our existing Stock Option Plan for 200,000 stock options.

Share Based Compensation: We measure share-based compensation cost at the grant date based on the fair value of the award and recognize 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 that we recognized in our Condensed Statements of Operations for the three months ended March 31, 2010 and 2009 was as follows:

	<u>For the three months ended March 31,</u>	
	<u>2010</u>	<u>2009</u>
Share-based compensation cost included in:		
Research and development	\$ 100,457	\$ 175,643
Selling, general and administrative	419,570	234,165
Total share-based compensation cost	<u>\$ 520,027</u>	<u>\$ 409,808</u>

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The following table presents our share-based compensation expense by type of award for the three months ended March 31, 2010 and 2009:

Type of Award:	For the three months ended March 31,	
	2010	2009
Stock Options	\$ 271,376	\$ 290,835
Restricted Stock Units and Awards	248,651	118,973
Total share-based compensation cost	<u>\$ 520,027</u>	<u>\$ 409,808</u>

Stock Options: The Company recognized share-based compensation expense for stock options of \$271,376 (\$265,729 to officers, directors and employees, and \$5,647 to outside providers) for the three months ended March 31, 2010 related to stock option awards ultimately expected to vest and reduced for estimated forfeitures. The weighted average estimated fair value of employee stock options granted for the three months ended March 31, 2010 and 2009 was \$3.50 and \$3.49 per share respectively. Fair value was calculated using the Black-Scholes Model with the following weighted average assumptions:

	For the three months ended March 31,	
	2010	2009
Expected volatility	102.1%	108.9%
Risk free interest rate	2.6%	1.9%
Expected dividends	—	—
Expected life (in years)	6.2	6.5

For the three months ended March 31, 2010 and 2009, the Company based its estimate of expected volatility, expected life and expected forfeiture rate on historical company experience. In future periods, the compensation expense that the Company records under ASC Topic 718 may differ significantly from what the Company recorded in the current period, as the Company builds company-specific performance history.

As of March 31, 2010, total compensation cost related to non-vested stock options not yet recognized was approximately \$2,776,000 (\$2,757,000 to officers, directors and employees, and \$19,000 to outside providers), which is expected to be recognized over a weighted average period of approximately 2.8 years. As of March 31, 2010, approximately 1,352,000 shares were vested and expected to vest in the future at a weighted average exercise price of \$5.48. As of March 31, 2010, approximately 826,000 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 \$248,651 for the three months ended March 31, 2010. We estimate the fair value of our restricted stock awards as our stock price on the grant date.

Total unrecognized share-based compensation expense from unvested restricted stock as of March 31, 2010 was approximately \$1,141,000 which is expected to be recognized over a weighted average period of approximately 1.9 years. As of March 31, 2010, approximately 251,000 shares remained available for future grants under the Restricted Stock Plan.

NOTE 13. RELATED PARTY TRANSACTIONS

Included in General and Administrative Expenses for the three months ended March 31, 2010 and 2009 are \$175,982 and \$201,057, respectively, of expenditures to ITN for facility sublease costs and administrative support expenses. Included in Research and development expense for the three months ended March 31, 2010 and 2009 are \$160,055 and \$594,398, respectively, of expenditures to ITN for supporting research and development and manufacturing activity, including charges for the use of research and development equipment. Related party payables of \$98,991 as of March 31, 2010 and \$195,954 as of December 31, 2009 represent costs remaining to be paid to ITN for these expenditures. Related party receivables of \$22,826 as of March 31, 2010 and \$21,570 as of December 31, 2009 represent pass-through costs for employee benefit insurance.

Included in Property, plant and equipment and Deposits on manufacturing equipment as of March 31, 2010 and 2009 are \$2,296,118 and \$1,708,956, respectively, of costs to ITN for the construction of manufacturing and research and development equipment and installation labor costs for our FAB1 and FAB2 production lines.

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On January 7, 2010, the Company and ITN entered into an equipment purchase agreement whereby the Company purchased six research and development vacuum and deposition chambers for \$1,100,000 from ITN. Payments are to be made in three installments beginning January 15, 2010 for \$350,000, January 15, 2011 for \$350,000 and on January 15, 2012 for \$400,000. Due to the Company's purchase of a majority of the research and development equipment and the Company's hiring of staff throughout 2009 to provide for much of the ITN administrative and technical support activities, we anticipate that ITN related party activity in 2010 will be significantly reduced.

NOTE 14. COMMITMENTS

Sublease Agreement: On November 1, 2005, the Company entered into a sublease agreement with ITN, an approximate five percent stockholder of the Company, to lease office space in Littleton, Colorado. Future minimum payments due in 2010 under the sublease as of March 31, 2010 are \$75,120.

The Company is also responsible for payment of pass-through expenses such as property taxes, insurance, water and utilities. Rent expense for the three months ended March 31, 2010 and 2009 was \$75,401 and \$59,265 respectively.

Patent License Agreements: In 2006, the Company entered into two non-exclusive patent license agreements. In consideration for the right to license certain inventions, the Company is required to pay annual royalty payments based on net sales of products manufactured using the licensed technology. If there are no net sales of products manufactured using the licensed technology, then a minimum royalty payment is required. The Company has made payments for the annual minimum royalties due associated with these patent license agreements. As of March 31, 2010, the Company has cancelled one of the non-exclusive patent license agreements.

NOTE 15. RETIREMENT PLAN

On July 1, 2006, the Company adopted a qualified 401(k) plan which provides retirement benefits for all of its eligible employees. Under the plan, employees become eligible to participate at the first entry date, provided that they are at least 21 years of age. The participants may elect through salary reduction to contribute up to ceilings established in the Internal Revenue Code. The Company will match 100% of the first six percent of employee contributions. In addition, the Company may make discretionary contributions to the Plan as determined by the Board of Directors. Employees are immediately vested in all salary reduction contributions. Rights to benefits provided by the Company's discretionary and matching contributions vest 100% after the first year of service for all employees hired before January 1, 2010. For employees hired after January 1, 2010, matching contributions vest over a three-year period, one-third per year.

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 development stage company formed to commercialize flexible photovoltaic (PV) modules using our proprietary technology. For the three months ended March 31, 2010, we generated approximately \$216,000 of revenue. Substantially all of our revenue was from government research and development contracts. Our planned principal operations are to commercialize flexible CIGS PV modules. As of March 31, 2010, we had an accumulated deficit of approximately \$52.6 million. Currently our FAB2 production line is being installed and commissioned. Under our current business plan, we expect losses to continue until production reaches an annual rated capacity of approximately 30 MW or more. To date, we have financed our operations primarily through public and private equity financings. On October 6, 2009, the Company completed a public offering of 4,615,385 shares of common stock and a private placement to our largest shareholder, Norsk Hydro Produksjon AS (Hydro), of 769,230 shares. The offering price was \$6.50 per share resulting in total net proceeds of approximately \$32.9 million. The proceeds from the stock sales are intended to be utilized to fund equipment purchases for FAB2 in Thornton, Colorado, as well as the funding of negative operating cash flows as we ramp up production levels.

While focused on speed to market, we believe that quality and consistency of product will be paramount to our success in the marketplace. Consequently, our path to commercialization is defined by a highly disciplined, staged progression based upon the achievement of key milestones and supported by over fifteen years of concerted research and development activity by our scientists.

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Our progression also takes into account market conditions, as well as financing options. In keeping with our philosophy, we completed construction of our FAB1 production line in December 2007. In March 2008, we demonstrated IOC of the FAB1 production line by initiating production trials as an end-to-end integrated process. Early IOC production trials resulted in average thin-film device efficiencies of 9.5% and small area monolithically integrated module efficiencies of over 7.0%. During 2008 optimization trials resulted in thin-film device efficiencies in the 9.5% to 11.5% range and corresponding module efficiencies in the 7.0% to 9.0% range. The test modules measured six inches wide by one foot long and currently serve as our building blocks for both BIPV and portable power products.

During 2008 we focused on testing and qualifying our FAB1 production line in anticipation of commencing production. During the first quarter of 2009, we began limited production of monolithically integrated flexible CIGS modules on our FAB1 production line and continued to provide sample modules to potential customers and development partners to explore integration of our products into new applications. In June 2009, we announced the fabrication of a five meter long CIGS module, which we believe is the largest monolithically interconnected CIGS module ever produced on polyimide and possibly the largest CIGS module ever produced regardless of construction. The CIGS based thin-film material used in the module was manufactured using our unique FAB1 production line. The module was encapsulated during the testing and qualification of equipment to be used in FAB2. Based on internal test and evaluation, this five meter long module weighed approximately two kilograms and produced 123 watts (under standard test conditions) with an aperture area efficiency of 9.1%. This length is expected to serve as a baseline for the company's development of large area flexible BIPV products with our strategic BIPV partners.

In July 2009, we obtained independent verification by the U.S. Department of Energy's National Renewable Energy Laboratory (NREL) that the modules produced from FAB1 measured 10.4% in conversion efficiency. The modules tested at NREL were standard 429 square centimeter modules produced on the Company's FAB1 production line. In October 2009, NREL verified our achievement of a manufacturing milestone of 14.0% cell efficiency from FAB1. We also announced a peak efficiency of 11.7% for CIGS modules manufactured at FAB1.

In August 2009, we completed internal qualification testing of a flexible packaging solution which successfully passed the rigorous standard of one thousand (1,000) hours of damp heat testing (85% relative humidity and 85° C temperature) guideline set forth by IEC 61646 standards for performance and long term reliability of thin-film solar modules. In February 2010, our premier (15 centimeters by 30 centimeters) and two meter modules were certified by an independent laboratory on a variety of United States Department of Defense (DOD) rugged standards known as MIL-STD-810G.

Commercialization and Manufacturing Expansion Plan

We intend to be the first company to manufacture in commercial quantities large, roll-format, PV modules that use CIGS on a flexible, plastic substrate. Our manufacturing expansion plan entails the design, installation, qualification, testing and operation of additional production tools to increase our rated production capacity. In March 2009, Colorado Governor, Bill Ritter, Jr. and other dignitaries joined us in the dedication of our world headquarters and FAB2 building in Thornton, Colorado. The FAB2 building encompasses approximately 145,000 square-feet of office and manufacturing space.

Approximately 70% of the total equipment planned for delivery into FAB2 had been delivered by March 31, 2010. Our current plan is to bring on line approximately 6MW to 8MW of capacity in FAB2 in 2010. We currently expect that non-BIPV markets will constitute the majority of our product shipments in 2010. We now anticipate beginning external certification of BIPV products, as required for market entry, during the second half of 2010 with Technischer Überwachungs-Verein (TÜV) and Underwriters Laboratory (UL). We are evaluating the timing of further expansion based on many factors that include demand, market conditions, product certification, availability of financing, technical advances and other factors.

Capital Equipment Expenditures and Manufacturing Costs

Since our formation in October 2005, the majority of our cash outlays have gone toward the investment in capital equipment necessary to develop our manufacturing capabilities for producing the commercial products we envision. We expect this trend to continue into the foreseeable future as we incrementally expand our rated capacity. We recently applied for funding under the U.S. Department of Energy (DOE) Loan Guarantee Program for our planned FAB3 production line with a name plate capacity of 150 MW per year. The DOE has reviewed our Part I submission under the Loan Guarantee Application—Innovative Energy Efficiency, Renewable Energy and Advanced Transmission and Distribution Technologies Solicitation No. DE-FOA-0000140, and has deemed it responsive to the initial threshold requirements, and they intend to proceed with further evaluation of our application.

We currently expect the capital expenditures for FAB2 to total approximately \$102 million to \$107 million for manufacturing and development equipment and approximately \$19 million for the acquisition and renovation of our new manufacturing facility in Thornton, Colorado. We also expect capital expenditures of approximately \$8 million for installation, qualification and other

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associated pre-operating expenses related to the first FAB2 expansion. As of March 31, 2010, we have made actual cash payments of approximately \$76.5 million for the FAB2 equipment including installation costs and approximately \$19 million for the building and renovations which are now substantially complete. A balance of approximately \$11.3 million for FAB2 manufacturing equipment already delivered to our FAB2 location is expected to be paid in 2010.

During the first quarter of 2009, we began limited production of monolithically integrated flexible CIGS modules from our FAB1 production line. In early 2010, we plan to complete equipment qualification for tools already delivered, and we anticipate beginning production in FAB2 in second quarter 2010.

The timing and amount of our production capacity and actual output will depend on a number of technical factors such as module efficiency, production yield and throughput. Our projections of annual rated production capacity have been and continue to be based on assumptions about these and other factors and we periodically revisit and revise these assumptions to account for realized rates and measurements on our production lines. To date, our realized module efficiencies have exceeded expectations. Anticipated production yield and throughput in FAB2 will depend on successfully ramping up the production equipment.

We are in the process of qualifying the production tools that have been delivered into FAB2. We have additional tools on order that have not been delivered into FAB2. The output of FAB2 in 2010 will depend on product demand, additional capital, market conditions, technical factors, and the timing of the final qualification and delivery of tools into FAB2, although we currently expect to bring approximately 6MW to 8MW of rated capacity online in 2010. We have begun discussions with our equipment suppliers regarding delaying delivery of certain equipment and may incur additional charges as a result. We intend to continue to optimize our manufacturing processes including throughput, efficiency and yield to improve product performance and reduce manufacturing costs. We also intend to identify and evaluate suitable locations for new production lines for future expansion, domestically and abroad, that we believe will best serve our target markets and customers for future expansion.

Significant Trends, Uncertainties and Challenges

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

- Our ability to achieve desired production yields, throughput, module efficiencies and other performance targets, and to obtain necessary or desired certifications for our PV modules, in a timely manner;
- Our ability to expand production in accordance with our plans set forth above under “Commercialization and Manufacturing Expansion Plan”;
- Our ability to achieve projected operational performance and cost metrics;
- Our ability to consummate strategic relationships with key partners, including original equipment manufacturer (OEM) customers, system integrators, value added resellers and distributors who deal directly with manufacturers and end-users in the BIPV, portable power, EIPV and government/defense solar panel markets;
- The effect that currency fluctuations may have on our capital equipment purchases, manufacturing costs and the price of our planned PV modules;
- Changes in the supply and demand for PV modules as well as fluctuations in selling prices for PV modules worldwide;
- Our ability to raise additional capital on terms favorable to us;
- Our ability to manage the planned expansion of our manufacturing facilities, operations and personnel; and
- Our ability and the ability of our distributors, suppliers and customers to manage operations and orders during the global financial crisis and financial downturn.

Basis of Presentation: The Company’s activities to date have substantially consisted of raising capital, research and development, establishment of our FAB1 production plant and the development of our FAB2 expansion plant. Revenues to date have been generated from the Company’s governmental research and development (R&D) contracts and have not been significant. The Company’s planned principal operations to commercialize flexible PV modules have not yet commenced. Accordingly, the Company is considered to be in the development stage and has presented its financial statements in accordance with the accounting guidance for development stage companies that consists of additional disclosure of inception to date activity in our Condensed Statements of Operations, Condensed Statements of Stockholders’ Equity and Comprehensive Income (Loss) and Condensed Statements of Cash Flows.

The condensed consolidated balance sheet at December 31, 2009 has been derived from the audited consolidated 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, 2009. For further information, refer to the consolidated financial statements and footnotes thereto included in the Company’s Annual Report on Form 10-K for the year ended December 31, 2009.

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Cash Equivalents: The Company considers all highly liquid debt securities purchased with an original maturity of three months or less to be cash equivalents. The Company maintains cash balances which may exceed federally insured limits. The Company does not believe that this results in significant credit risk.

Investments: The Company has classified its investments as “available-for-sale.” Such investments are carried at fair value, based on quoted market prices with the unrealized holding gains and losses reported as Accumulated other comprehensive income (loss) in the stockholders’ equity section of the Condensed Balance Sheets. Realized gains and losses on sales of securities are computed using the specific identification method. The Company evaluates declines in market value for potential impairment. If the decline results in a value below cost and is determined to be other than temporary, the investment is written down to its impaired value and a new cost basis is established.

Fair Value estimates: The fair value of an asset or liability is the amount at which it could be exchanged or settled in a current transaction between willing parties. The carrying value for cash and cash equivalents, investments, restricted cash, accounts receivable, accounts payable, accrued property and equipment, accrued expenses and other assets and liabilities approximate their fair values due to their short maturities.

Foreign Currency translation: Bank account balances related to our forward contracts are translated to U.S. dollars utilizing the period end exchange rate. Gains or losses on foreign currency translation adjustments in connection with our forward contracts are recorded within realized gain (loss) on forward contracts in Other Income/(Expense) on the Condensed Statement of Operations.

Revenue Recognition: Revenue to date is from governmental research and development contracts under terms that are cost plus fee or firm fixed price. Revenue from cost plus fee contracts is recognized as costs are incurred on the basis of direct costs plus allowable indirect costs and an allocable portion of the firm fixed fee. Revenue from firm fixed price contracts is recognized under the percentage-of-completion method of accounting, with costs and estimated profits included in contract revenue as work is performed. If actual and estimated costs to complete a contract indicate a loss, provision is made currently for the loss anticipated on the contract.

Patents: At such time as the Company is awarded patents, patent costs are amortized on a straight-line basis over the legal life, or over their estimated useful lives, whichever is shorter. As of March 31, 2010, the Company had \$198,206 of net patent costs, of which \$23,022 represent costs net of amortization incurred for an awarded patent, and the remaining \$175,184 represents costs incurred for patent applications filed. Amortization expense for the three months ended March 31, 2010 and 2009 was \$1,279.

Property, Plant and Equipment: Property, plant and equipment are recorded at the original cost to the Company. Assets are being depreciated over estimated useful lives of three to ten years using the straight-line method, commencing when the asset is placed in service. Leasehold improvements are depreciated over the shorter of the remainder of the lease term or the life of the improvements. Upon retirement or disposal, the cost of the asset disposed of and the related accumulated depreciation are removed from the accounts and any gain or loss is reflected in income. Expenditures for repairs and maintenance are expensed as incurred.

The Company computes depreciation expense using the straight-line method over the estimated useful lives of the assets, as presented in the table below. We amortize leasehold improvements over the shorter of their estimated useful lives or the remaining term of the lease.

	<u>Useful Lives in Years</u>
Buildings	40
Manufacturing machinery and equipment	5 - 10
Furniture, fixtures, computer hardware/software	3 - 7
Leasehold improvements	life of lease

Interest Capitalization: We capitalize interest cost as part of the historical cost acquiring or constructing certain assets during the period of time required to get the asset ready for its intended use. During 2009 and the first quarter of 2010, these assets consisted of property, plant and equipment. We capitalize interest to the extent that expenditures to acquire or construct an asset have occurred and interest cost has been incurred.

Long-lived assets: We analyze our long-lived tangible assets (property and equipment) and definitive-lived intangible assets (patents) for impairment by assessing if the asset cost will be recoverable. Events that might cause impairment would include significant current period operating or cash flow losses associated with the use of a long-lived asset or group of assets combined with a history of such losses, significant changes in the manner of use of assets and significant negative industry or economic trends.

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Risks and Uncertainties: The Company's operations are subject to certain risks and uncertainties, including those associated with: the ability to meet obligations; continuing losses; fluctuation in operating results; funding expansions; strategic alliances; financing arrangement terms that may restrict operations; regulatory issues; and competition. The credit markets continue to be depressed and have made it more difficult to raise additional capital to fulfill our expansion business plan. Additionally, U.S. government contracts may be terminated prior to completion of full funding by the U.S. government.

Net loss per Common Share: Basic earnings per share include no dilution and are computed by dividing income available to common stockholders by the weighted-average number of shares outstanding during the period. Diluted earnings per share reflect the potential of securities that could share in the earnings of the Company, similar to fully diluted earnings per share. Common stock equivalents consisting of Class B warrants, IPO warrants (representative warrants), and stock options and unvested restricted stock outstanding as of March 31, 2010 of approximately 12 million shares, have been omitted from loss per share because they are anti-dilutive. Net Loss Per Share was the same for both basic and diluted for the periods ended March 31, 2010 and 2009.

Research and Development Costs: Research and development costs are incurred during the process of researching and developing new products and enhancing our manufacturing processes and consist primarily of compensation and related costs for personnel, materials, supplies and equipment depreciation. We expense these costs as incurred until the resulting product has been completed and tested and is ready for commercial manufacturing. We also incur research and development expenses on our federal government research and development contracts and expense as incurred.

Income Taxes: Deferred income taxes are provided using the liability method whereby deferred tax assets are recognized for deductible temporary differences and operating loss and tax credit carry forwards and deferred tax liabilities are recognized for taxable temporary differences. Temporary differences are the differences between the reported amounts of assets and liabilities and their tax bases. Deferred tax assets are reduced by a valuation allowance when, in the opinion of management, it is more likely than not that some portion or all of the deferred tax assets will not be realized. Deferred tax assets and liabilities are adjusted for the effects of the changes in tax laws and rates as of the date of enactment. Interest and penalties, if applicable, would be recorded in operations.

The Company has analyzed filing positions in all of the federal and state jurisdictions where it is required to file income tax returns, as well as all open tax years (2005-2008) in these jurisdictions. The Company believes that its income tax filing positions and deductions will be sustained on audit and does not anticipate any adjustments that will result in a material adverse effect on the Company's financial condition, results of operations, or cash flows. Therefore, no reserves for uncertain income tax positions have been recorded.

Stock Based Compensation: The Company measures and recognizes compensation expense for all share-based payment awards made to employees, officers, directors, and consultants based on estimated fair values. The company estimates the fair value of share-based payment awards on the date of grant using an option-pricing model. The value of the portion of the award that is ultimately expected to vest is recognized as expense over the requisite service period in the Company's Condensed Statements of Operations. Stock based compensation is based on awards ultimately expected to vest and is reduced for estimated forfeitures. Forfeitures are estimated at the time of grant and revised, as necessary, in subsequent periods if actual forfeitures differ from those estimates. For purposes of determining estimated fair value of share-based payment awards on the date of grant the Company uses the Black-Scholes option-pricing model (Black-Scholes Model) for option awards. The Black-Scholes Model requires the input of highly subjective assumptions. Because the Company's employee stock options may have characteristics significantly different from those of traded options, and because changes in the subjective input assumptions can materially affect the fair value estimate, in management's opinion, the existing models may not provide a reliable single measure of the fair value of the Company's employee stock options. Management will continue to assess the assumptions and methodologies used to calculate estimated fair value of share-based compensation. Circumstances may change and additional data may become available over time, which result in changes to these assumptions and methodologies, which could materially impact the Company's fair value determination. We estimate the fair value of our restricted stock awards as our stock price on the grant date.

The accounting guidance for stock based compensation may be subject to further interpretation and refinement over time. There are significant differences among option valuation models, and this may result in a lack of comparability with other companies that use different models, methods and assumptions. If factors change and the Company employs different assumptions in the accounting for stock based compensation in future periods, or if the Company decides to use a different valuation model, the compensation expense that the Company records in the future may differ significantly from what it has recorded in the current period and could materially affect its loss from operations, net loss and net loss per share.

Comprehensive income (loss): Our comprehensive income (loss) consists of our net income (loss) and changes in unrealized gains or losses on available-for-sale investments, the impact of which has been excluded from net loss. We present our comprehensive income (loss) in the Condensed Statements of Stockholders' Equity and Comprehensive Income (Loss). Our accumulated other comprehensive income (loss) is presented as a component of equity in our Condensed Balance Sheets and consists of the cumulative amount of unrealized gains or losses on available-for-sale investments that we have incurred since the inception of our business.

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Reclassifications: Certain reclassifications have been made to the 2009 financial information to conform to the 2010 presentation.

Use of Estimates: The preparation of financial statements in conformity with generally accepted accounting principles 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 financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates. Actual results could differ from those estimates and operating results for the three months ended March 31, 2010 and are not necessarily indicative of the results that may be expected for the year ending December 31, 2010.

Unaudited Information: The accompanying interim financial information as of March 31, 2010 and for the three months ended March 31, 2010 and 2009 and the period from inception (October 18, 2005) through March 31, 2010 was taken from the Company's books and records without audit. However, in the opinion of management, such information includes all adjustments (consisting only of results of normal recurring accruals) that are necessary to fairly state the financial position of the Company as of March 31, 2010 and the results of operations for the three months ended March 31, 2010 and 2009 and the period from inception (October 18, 2005) through March 31, 2010.

Recent Accounting Pronouncements : In January 2010, the FASB issued ASU 2010-06, *Fair Value Measurements and Disclosures (Topic 820)—Improving Disclosures about Fair Value Measurements*. This ASU requires new disclosures and clarifies certain existing disclosure requirements about fair value measurements. ASU 2010-06 requires a reporting entity to disclose significant transfers in and out of Level 1 and Level 2 fair value measurements, to describe the reasons for the transfers and to present separately information about purchases, sales, issuances and settlements for fair value measurements using significant unobservable inputs. ASU 2010-06 is effective for interim and annual reporting periods beginning after December 15, 2009, except for the disclosures about purchases, sales, issuances and settlements in the roll forward of activity in Level 3 fair value measurements, which is effective for interim and annual reporting periods beginning after December 15, 2010; early adoption is permitted. We do not expect that the adoption of ASU 2010-06 will have a material impact on our financial position, results of operations or cash flows.

Results of Operations

Comparison of the Three Months Ended March 31, 2010 and 2009

Our activities to date have substantially consisted of raising capital, business and product development, research and development and the development of our FAB1 production line and the construction of our FAB2 production line.

Research and Development Revenues. Our R&D revenues were \$216,196 for the three months ended March 31, 2010 compared to \$516,133 for the three months ended March 31, 2009, a decrease of \$299,937. The majority of our R&D revenues during the three months ended March 31, 2010 and 2009 were revenues earned on our government R&D contracts. The decrease is due to a contract completion early in 2010 and an increase in work on internal research and development.

Research and Development. R&D costs include the costs incurred for pre-production activities for our FAB1 and FAB2 production lines and facility and equipment infrastructure costs on our FAB2 production line. R&D costs also include costs related to our governmental contracts. R&D costs were \$4,558,319 for the three months ended March 31, 2010 compared to \$3,195,653 for the three months ended March 31, 2009, an increase of \$1,362,666. Costs related to pre-production activities increased approximately \$1,397,000. The pre-production cost increases were comprised of materials and equipment related costs of approximately \$338,000, depreciation and amortization of approximately \$352,000, personnel related costs of approximately \$706,000 and facility related costs of approximately \$426,000 offset by a decrease in consulting and contract services of approximately \$377,000 and stock compensation expense of approximately \$78,000. Governmental R&D expenditures decreased by approximately \$34,000.

General and Administrative. G&A expenses were \$2,131,105 for the three months ended March 31, 2010 compared to \$1,580,878 for the three months ended March 31, 2009, an increase of \$550,227. This increase is comprised of costs associated with increased headcount of approximately \$370,000, insurance costs of approximately \$23,000, and stock compensation expense of approximately \$188,000 offset by a decrease in contract services of \$57,000.

Interest Expense. Interest expense was \$0 for the three months ended March 31, 2010 compared to \$83,345 for the three months ended March 31, 2009, a decrease of \$83,345. Interest expense of \$121,309 for the three months ended March 31, 2010 was capitalized as property and equipment. Interest expense reported in interim periods of 2009 was subsequently capitalized at year end. Interest incurred relates to our CHFA loan utilized for our FAB2 production facility expansion in Thornton, Colorado.

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Interest Income. Interest income was \$12,110 for the three months ended March 31, 2010 compared to \$333,367 for the three months ended March 31, 2009, a decrease of \$321,257. Interest income represents interest on cash and short-term investments. The decrease in interest income is due to significantly lower interest rates in 2010 as compared to 2009 as well as a lower average cash balance.

Realized Loss on Forward Contracts and Unrealized Loss on Forward Contracts. For the three months ended March 31, 2010 the realized loss on forward contracts was \$142,630 compared to \$556,373 for the three months ended March 31, 2009, a decrease of \$413,743. For the three months ended March 31, 2010, the unrealized gain on forward contracts was \$0 compared to the unrealized gain of \$154,191 for the three months ended March 31, 2009 resulting in a decrease of \$154,191 from the prior year. As of December 31, 2009, all forward contracts had been settled, resulting in the reversal of all unrealized gains and losses. Although the hedging activity is designed to fix the dollar amount to be expended, the asset purchased is recorded at the spot 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 a loss on forward contract. The forward contract was 100% effective in fixing the amount to be paid to the supplier in dollar terms as of the date the forward contract was entered into.

Net Loss. Our Net Loss was \$6,603,748 for the three months ended March 31, 2010 compared to a Net Loss of \$4,412,558 for the three months ended March 31, 2009, an increase in Net Loss of \$2,191,190. The increase in Net Loss can be summarized in variances in significant account activity as follows:

	(Increase) decrease to Net Loss For the Three Months Ended March 31, 2010
Contract revenues	\$ (299,937)
Research and development costs	
Manufacturing R&D	(1,474,886)
Government R&D	34,482
Non-cash stock based compensation	77,738
General and administrative expenses	
Corporate G&A	(362,271)
Non-cash stock based compensation	(187,956)
Interest expense	83,345
Interest income	(321,257)
Realized Loss on forward contract	413,743
Unrealized Gain on forward contracts	(154,191)
Increase to Net Loss	<u>\$ (2,191,190)</u>

Liquidity and Capital Resources

For the three months ended March 31, 2010, our cash used in operations was approximately \$5.8 million compared to approximately \$3.1 million for the three months ended March 31, 2009. For the three months ended March 31, 2010 approximately \$2.5 million was expended for payments on FAB2 tools and renovations to the FAB2 production facility.

On October 6, 2009 the Company completed a public offering with Barclays Capital Inc. acting as managing underwriter, and a concurrent private placement with its largest shareholder, Hydro, yielding total net proceeds of approximately \$32.9 million. As of March 31, 2010, we had approximately \$51.6 million in cash and investments. We currently expect the cost of FAB2 will total approximately \$102 million to \$107 million for manufacturing and development equipment and approximately \$19 million for the acquisition of the building and renovation of the FAB2 facility. We also expect capital expenditures of approximately \$8 million for installation, qualification and other associated pre-operating expenses related to the expansion. As of March 31, 2010, we have made actual cash payments of approximately \$76.5 million for the FAB2 manufacturing and development equipment, including installation costs and approximately \$19 million for the building and renovations that are now substantially complete. A balance of approximately \$11.3 million for FAB2 manufacturing equipment already delivered to our FAB2 location is expected to be paid in 2010.

The Company expects current cash and investments will be sufficient to fund operations and capital expenditures through 2010. Changes in the level of expected operating losses, the timing of planned capital expenditures or other factors may negatively impact our cash flows and reduce current cash and investments faster than anticipated. The Company expects to raise additional capital during 2010.

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During the three months ended March 31, 2010, the use of cash for operational expenses averaged approximately \$1.9 million per month and was related to pre-manufacturing activities, research and development, business development and general corporate expenses. Our average monthly operational expense for the three months ended March 31, 2010 of approximately \$1.9 million is net of average monthly R&D revenues from our governmental contracts of approximately \$0.07 million. A significant component of our costs for the three months ended March 31, 2010 related to the qualification and hiring of additional personnel for operations in our FAB1 production line and installation and qualification of our new FAB2 production line along with company infrastructure costs to support our expansion. We anticipate that our operational expenditures will continue to increase throughout 2010 as we increase the size of our workforce and scale up FAB2. As of March 31, 2010, we had 113 full-time employees of which 86 were manufacturing personnel. We plan to continue to selectively increase our staff during 2010 as required.

We do not expect that our sales revenue in 2010 from the FAB1 and FAB2 production lines will support our operating cash requirements. We expect that we may need to raise additional capital to cover our operating losses and future manufacturing capacity expansion. We currently are pursuing various avenues to obtain additional capital for operating expenses and future expansion. We have submitted materials in connection with a loan guarantee program sponsored by the U.S. Department of Energy for our planned FAB3 production line with name plate capacity of 150 MW per year, and may explore raising money in the equity markets. The DOE has reviewed our Part I submission under the Loan Guarantee Application—Innovative Energy Efficiency, Renewable Energy and Advanced Transmission and Distribution Technologies Solicitation No. DE-FOA-0000140, and has deemed it responsive to the initial threshold requirements, and they intend to proceed with further evaluation of our application.

On January 9, 2009, we filed a “shelf” Registration Statement on Form S-3 with the SEC. The SEC declared the registration statement effective on January 16, 2009. The shelf registration was utilized in connection with our public offering of approximately 4.6 million shares that closed on October 6, 2009 with gross proceeds of approximately \$30 million. With the shelf registration, we may from time to time sell common stock, preferred stock, warrants or some combination in one or more offerings for up to \$120 million, the remaining amount available.

Contractual Obligations

As of March 31, 2010, we had open purchase orders related to our equipment and tooling orders in the approximate amount of \$17.8 million and purchase orders for materials and services in the approximate amount of \$4.4 million. On January 7, 2010 we purchased research and development equipment from a related party for which there is a note payable of \$750,000 as of March 31, 2010. We have an outstanding note payable in the amount of \$7.2 million.

Off Balance Sheet Transactions

As of March 31, 2010, 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

The Company is actively engaged in purchasing manufacturing equipment internationally and is exposed to foreign currency risk. Our objective is to fix the dollar amount of our foreign currency denominated manufacturing equipment purchases at time of order. Although the hedging activity is designed to fix the dollar amount to be expended, the asset purchased is recorded at the spot 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 a loss on forward contract.

In July 2008 and March 2009, the Company entered into fair value hedges utilizing forward contracts designed to match scheduled contractual payments to equipment suppliers which are denominated in Euros and Yen. The total notional value of the Euro forward contracts was €6.4 million with various contract settlement dates beginning September 15, 2008 through July 31, 2009. The total notional value of the Yen forward contracts was ¥521.4 million with contract settlement dates of March and April 2009. All forward contracts have been settled as of December 31, 2009, however, not all payments have been made to our equipment suppliers. Included in cash and cash equivalents is \$3,379,404 related to €2,502,150 and \$1,426,713 related to ¥133,440,440 held as of March 31, 2010 in our bank account for future payments to our equipment suppliers. Based on our overall currency rate exposure as of March 31, 2010, a near-term 10% appreciation or depreciation in the United States Dollar, relative to our foreign currencies, would have a positive or negative impact of approximately \$0.5 million on our results of operations.

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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.

We currently have unhedged open purchase orders to an equipment supplier denominated in Yen for approximately ¥655.2 million. A 10% appreciation or depreciation in the United States Dollar, relative to this purchase obligation, would have a positive or negative impact of approximately \$0.8 million on our future cash flows. 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.

Interest Rate Risk

Our exposure to market risks for changes in interest rates relates primarily to our cash equivalents and investment portfolio. As of March 31, 2010, our cash equivalents consisted of money market funds and 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.

Commodity and Component Risk

Failure to receive timely delivery of production tools from our equipment suppliers could delay our planned expansion of manufacturing capacity and materially and adversely affect our results of operations and financial condition. Our planned expansion of manufacturing capacity and commercialization timeline depend on the timely delivery of production tools from our equipment suppliers. The relationships with our chosen equipment suppliers are relatively new, and at this point in time we cannot be certain that the equipment orders we place with these suppliers will be fulfilled as we expect or in a timely manner. We are exposed to price risks for the raw materials used in the manufacture of our PV modules. We depend on a limited number of third party suppliers for key raw materials, and their failure to perform could cause manufacturing delays and impair our ability to deliver PV modules to customers in the required quality and quantity and at a price that is profitable to us. Our failure to obtain raw materials and components that meet our quality, quantity and cost requirements in a timely manner could interrupt or impair our ability to manufacture our PV modules or increase our manufacturing cost. Most of our key raw materials are either sole-sourced or sourced by a limited number of third party suppliers. As a result, the failure of any of our suppliers to perform could disrupt our supply chain and impair our operations. In addition, many of our suppliers are small companies that may be unable to supply our increasing demand for raw materials as we implement our planned expansion. We may be unable to identify new suppliers in a timely manner or on commercially reasonable terms. Raw materials from new suppliers may also be less suited for our technology and yield PV modules with lower conversion efficiencies, higher failure rates and higher rates of degradation than PV modules manufactured with the raw materials from our current suppliers.

If delivery of production tools or raw materials are not made on schedule or at all, then we might be unable to carry out our commercialization and manufacturing expansion plans, produce PV modules in the volumes and at the times that we expect or generate sufficient revenue from operations, and our business, results of operations and financial condition could be materially and adversely affected.

Credit Risk

We have certain financial and derivative instruments that potentially subject us to credit risk. These consist primarily of cash, cash equivalents, restricted cash, investments, and forward foreign exchange 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 exchange 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 (Exchange Act) is recorded, processed, summarized and reported within the time periods specified in Securities and Exchange Commission (SEC) rules and forms. Our disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed in our reports filed under the Exchange Act is accumulated and communicated to management as appropriate to allow timely decisions

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regarding required disclosures. There are inherent limitations to the effectiveness of any system of disclosure controls and procedures, including the possibility of human error and the circumvention or overriding of the controls and procedures. Accordingly, even effective disclosure controls and procedures can only provide reasonable assurance of achieving their control objectives, and management necessarily is required to use its judgment in evaluating the cost-benefit relationship of possible controls and procedures. Our management 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 March 31, 2010. Based on this evaluation, our management concluded that as of March 31, 2010, the design and operation of 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 March 31, 2010 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

PART II. OTHER INFORMATION

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 16, 2010, 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 16, 2010 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 6. Exhibits

- a. A list of exhibits is found on page 31 of this report.

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ASCENT SOLAR TECHNOLOGIES, INC.

EXHIBIT INDEX

<u>Exhibit No.</u>	<u>Description</u>
3.1	Amended and Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.2 to our Registration Statement on Form SB-2 filed January 23, 2006 (Reg. No. 333-131216), as amended)
3.2	Second Amended and Restated Bylaws (incorporated by reference to Exhibit 3.2 to our Current Report on Form 8-K filed February 17, 2009)
3.3	First Amendment to Second Amended and Restated Bylaws (incorporated by reference to Exhibit 3.3 to our Quarterly Report on Form 10-Q filed on November 5, 2009)
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*

* Filed herewith

ASCENT SOLAR TECHNOLOGIES, INC.

CERTIFICATION PURSUANT TO
18 U.S.C. SECTION 1350
AS ADOPTED PURSUANT TO
SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

I, Farhad Moghadam, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of Ascent Solar Technologies, Inc. for the period ended March 31, 2010;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officers and I have disclosed, based on our most recent evaluation, to the registrant's auditors and the audit committee of registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: May 6, 2010

/s/ FARHAD MOGHADAM
Farhad Moghadam
President and Chief Executive Officer

ASCENT SOLAR TECHNOLOGIES, INC.

CERTIFICATION PURSUANT TO
18 U.S.C. SECTION 1350
AS ADOPTED PURSUANT TO
SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

I, Gary Gatchell, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of Ascent Solar Technologies, Inc. for the period ended March 31, 2010;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officers and I have disclosed, based on our most recent evaluation, to the registrant's auditors and the audit committee of registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: May 6, 2010

/s/ GARY GATCHELL

Gary Gatchell
Chief Financial Officer

ASCENT SOLAR TECHNOLOGIES, INC.

**CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350 AS ADOPTED PURSUANT
TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Quarterly Report of Ascent Solar Technologies, Inc. (the "Company") on Form 10-Q for the period ended March 31, 2010 as filed with the Securities and Exchange Commission on the date therein specified (the "Report"), I, Farhad, Moghadam, President and Chief Executive Officer of the Company, certify pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to the best of my knowledge:

1. The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
2. The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: May 6, 2010

/s/ FARHAD MOGHADAM
Farhad Moghadam
President and Chief Executive Officer

ASCENT SOLAR TECHNOLOGIES, INC.

**CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350 AS ADOPTED PURSUANT
TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Quarterly Report of Ascent Solar Technologies, Inc. (the "Company") on Form 10-Q for the period ended March 31, 2010 as filed with the Securities and Exchange Commission on the date therein specified (the "Report"), I, Gary Gatchell, Chief Financial Officer of the Company, certify pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to the best of my knowledge:

1. The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
2. The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: May 6, 2010

/s/ GARY GATCHELL

Gary Gatchell

Chief Financial Officer