

SECURITIES AND EXCHANGE COMMISSION

FORM 4

Statement of changes in beneficial ownership of securities

Filing Date: **2009-01-26** | Period of Report: **2009-01-01**
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ISSUER

Ascent Solar Technologies, Inc.

CIK: **1350102** | IRS No.: **203672603** | State of Incorporation: **DE** | Fiscal Year End: **1231**
SIC: **3674** Semiconductors & related devices

Mailing Address
8120 SHAFFER PARKWAY
LITTLETON CO 80127

Business Address
8120 SHAFFER PARKWAY
LITTLETON CO 80127
303 420 1141

REPORTING OWNER

Porter Joel S

CIK: **1405033**
Type: **4** | Act: **34** | File No.: **001-32919** | Film No.: **09546578**

Mailing Address
C/O ASCENT SOLAR
TECHNOLOGIES, INC.
8120 SHAFFER PARKWAY
LITTLETON CO 80127

Business Address
(303) 285-9885

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person Porter Joel S			2. Issuer Name and Ticker or Trading Symbol Ascent Solar Technologies, Inc. [ASTI]			5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below)		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 01/01/2009					
C/O ASCENT SOLAR TECHNOLOGIES, INC., 8120 SHAFFER PARKWAY			4. If Amendment, Date Original Filed(Month/Day/Year)			6. Individual or Joint/Group Filing (Check applicable line) <input checked="" type="checkbox"/> Form Filed by One Reporting Person <input type="checkbox"/> Form Filed by More than One Reporting Person		
(Street) LITTLETON, CO 80127								
(City)	(State)	(Zip)						

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date					
Restricted Stock Units	(1)	01/01/2009		A		7,976		(2)	(2)	Common Stock	7,976	\$ 0	7,976 (3)	D

Explanation of Responses:

- Each restricted stock unit represents a contingent right to receive one share of the Issuer's common stock.
- The restricted stock units vest in the following amounts on the following dates: 25% on March 31, 2009; 25% on June 30, 2009; 25% on September 30, 2009; and 25% on December 31, 2009.
- Mr. Porter also holds the following securities: 3,006 shares of common stock and vested options to purchase 5,000 shares of common stock that expire on June 30, 2017.

Signatures

Mark A. von Bergen, as attorney-in-fact for Joel S. Porter

** Signature of Reporting Person

01/26/2009

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

* If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.