Ascent Solar Technologies, Inc.

Form 4

January 26, 2009

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB

OMB APPROVAL

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Check this box

Form 5 obligations may continue. See Instruction

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(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * Swanson Richard John

2. Issuer Name and Ticker or Trading Symbol

01/01/2009

5. Relationship of Reporting Person(s) to

Issuer

Ascent Solar Technologies, Inc.

(Check all applicable)

[ASTI]

(Last)

3. Date of Earliest Transaction

(Month/Day/Year)

X_ Director Officer (give title

10% Owner Other (specify

C/O ASCENT SOLAR TECHNOLOGIES, INC., 8120 SHAFFER PARKWAY

(Street)

(First)

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check

Applicable Line)

X Form filed by One Reporting Person Form filed by More than One Reporting

(Instr. 4)

LITTLETON, CO 80127

1.Title of

Security

(Instr. 3)

(City)

(State)

(Month/Day/Year)

(Zip)

Execution Date, if

(Month/Day/Year)

2. Transaction Date 2A. Deemed

(Middle)

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 3.

Code

(Instr. 8)

4. Securities TransactionAcquired (A) or

Disposed of (D)

(Instr. 3, 4 and 5)

5. Amount of Securities Beneficially

6. Ownership 7. Nature of Form: Direct Indirect (D) or Indirect Beneficial Ownership

(Instr. 4)

(A)

Following Reported Transaction(s)

Code V Amount (D) Price

(Instr. 3 and 4)

Owned

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

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

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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. Transacti Code (Instr. 8)	5. Number of orDerivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exer Expiration D (Month/Day/	ate	7. Title and Underlying S (Instr. 3 and	Securities 1
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Restricted Stock Units	<u>(1)</u>	01/01/2009		A	15,424	(2)	(2)	Common Stock	15,424

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

De Se (In

Swanson Richard John C/O ASCENT SOLAR TECHNOLOGIES, INC. 8120 SHAFFER PARKWAY LITTLETON, CO 80127



Signatures

Mark A. von Bergen, as attorney-in-fact for Richard J.
Swanson
01/26/2009

**Signature of Reporting Person Date

Explanation of Responses:

- * 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).
- (1) Each restricted stock unit represents a contingent right to receive one share of the Issuer's common stock.
- (2) 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.
- (3) Mr. Swanson also holds the following securities: 1,116 shares of common stock and vested options to purchase 8,000 shares of common stock that expire on January 30, 2017.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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