Swanson Richard John Form 4 January 05, 2010

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

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January 31, 2005

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if no longer subject to Section 16. Form 4 or Form 5 obligations

may continue.

See Instruction

Check this box

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

(Print or Type Responses)

1(b).

1. Name and Address of Reporting Person *

Swanson Richard John

2. Issuer Name and Ticker or Trading

Symbol

Ascent Solar Technologies, Inc.

[ASTI]

5. Relationship of Reporting Person(s) to

Issuer

(Check all applicable)

(Last)

(First)

(Middle)

3. Date of Earliest Transaction

(Month/Day/Year) 12/31/2009

X_ Director 10% Owner Other (specify Officer (give title

C/O ASCENT SOLAR TECHNOLOGIES, INC., 8120

SHAFFER PARKWAY

(Street) 4. If Amendment, Date Original

Filed(Month/Day/Year)

3.

6. Individual or Joint/Group Filing(Check

Applicable Line)

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

LITTLETON, CO 80127

(City) (State) (Zip)

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

1.Title of Security (Instr. 3)

(Month/Day/Year)

2. Transaction Date 2A. Deemed Execution Date, if

(Month/Day/Year)

Code (Instr. 8)

TransactionAcquired (A) or Disposed of (D) (Instr. 3, 4 and 5)

4. Securities

5. Amount of Securities Beneficially Owned Following Reported

Form: Direct (D) or Indirect (I) (Instr. 4)

Indirect Beneficial Ownership (Instr. 4)

(9-02)

6. Ownership 7. Nature of

(A)

Transaction(s) (Instr. 3 and 4) Price (D)

Common Stock

12/31/2009

Amount 3,856 $M^{(1)}$ (1)

(1)

D

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

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16,540

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

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Deri Secu	itle of vative urity (r. 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. Transact Code (Instr. 8)	ionDeriv Secur Acqui Dispo	5. Number of on 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 Underlying Securities (Instr. 3 and 4)	
					Code V	V (A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Res Sto Uni		(1)	12/31/2009		M(1)			3,856 (1)	<u>(1)</u>	<u>(1)</u>	Common Stock	3,856 (1)
Res Sto		(3)	01/01/2010		A	10,9	40		(3)	(3)	Common Stock	10,940

Reporting Owners

Reporting Owner Name / Address

Director 10% Owner Officer Other

Swanson Richard John

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

LITTLETON, CO 80127

Signatures

David C. Wang, as attorney-in-fact for Richard J Swanson 01/04/2010

**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) Represents restricted stock units that vested on December 31, 2009. Each restricted stock unit represents a contingent right to receive one share of the Issuer's common stock.
- (2) In addition to the restricted stock units, Mr. Swanson holds vested options to purchase 16,000 shares of common stock that expire on January 30, 2017.
- (3) These newly granted restricted stock units vest quarterly in 2010. Each restricted stock unit represents a contingent right to receive one share of the Issuer's common stock.

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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