Armstrong Joseph H Form 4 January 03, 2007

Check this box

if no longer

subject to

Section 16.

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Form 4 or Form 5 Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue. 30(h) of the Investment Company Act of 1940 See Instruction

(Print or Type Responses)

1(b).

1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading Armstrong Joseph H Issuer Symbol

> Ascent Solar Technologies, Inc. (Check all applicable)

[ASTI]

(Last) (First) (Middle) 3. Date of Earliest Transaction Director 10% Owner X_ Officer (give title Other (specify

(Month/Day/Year) below) C/O ASCENT SOLAR 12/31/2006 Vice President and CTO

TECHNOLOGIES, INC., 8120 SHAFFER PARKWAY

> (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check

> > Filed(Month/Day/Year) 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 2. Transaction Date 2A. Deemed 3. 4. Securities 5. Amount of 6. Ownership 7. Nature of Security (Month/Day/Year) Execution Date, if TransactionAcquired (A) or Securities Form: Direct Indirect (Instr. 3) Code Disposed of (D) Beneficially (D) or Beneficial (Month/Day/Year) (Instr. 8) (Instr. 3, 4 and 5) Owned Indirect (I) Ownership

Following (Instr. 4) (Instr. 4) Reported (A) Transaction(s)

(Instr. 3 and 4) Code V Amount (D) Price

Common 12/31/2006 5,000 5,000 (1) D M Stock

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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3235-0287

January 31,

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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. Transactic Code (Instr. 8)	5. Number proof 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	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Common Stock Option	\$ 0.1	12/31/2006		X	5,000	12/31/2006	11/18/2015	Common Stock	5,000

Reporting Owners

Reporting Owner Name / Address	Relationships					
coporting of more removed and the control of the co	Director	10% Owner	Officer	Other		
Armstrong Joseph H C/O ASCENT SOLAR TECHNOLOGIES, INC. 8120 SHAFFER PARKWAY LITTLETON, CO 80127			Vice President and CTO			

Signatures

Joseph

Armstrong 01/02/2007

**Signature of Date

Reporting Person

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).

Reflects the exercise of options to purchase 5,000 shares of common stock. After this exercise, Mr. Armstrong holds options to purchase 20,000 shares of common stock that expire on November 18, 2015 and options to purchase 25,000 shares of common stock that expire on February 27, 2016.

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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