

Armstrong Joseph H
 Form 4
 July 28, 2009

FORM 4 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
 Washington, D.C. 20549

OMB APPROVAL

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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. Name and Address of Reporting Person *
 Armstrong Joseph H

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)
 07/24/2009

___ Director ___ 10% Owner
 Officer (give title below) ___ Other (specify below)
 Vice President and CTO

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

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

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 ___ Form filed by More than One Reporting Person

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 Ownership (Instr. 4)				
				Code	V	Amount	(A) or (D)	Price			
Common Stock	07/24/2009		M		4,500	A		\$ 0.1	37,833	D	
Common Stock	07/24/2009		S		4,500	D		\$ 8.161	33,333	D	

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)**

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 Underlying Securities (Instr. 3 and 4)
Common Stock Option (Right to Buy)	\$ 0.1	07/24/2009		M	4,500	12/31/2006 ⁽¹⁾ 11/18/2015	Common Stock 4,500

Reporting Owners

Reporting Owner Name / Address	Relationships			
	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

David C. Wang, as attorney-in-fact for Joseph Armstrong 07/28/2009

**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) The options vested in the following amounts on the following dates: options to purchase 8,000 shares vested on December 31, 2006, and options to purchase 8,500 shares vested on each of December 31, 2007 and 2008.
- (2) Dr. Armstrong also holds the following derivative securities: vested options to purchase 18,000 shares of common stock that expire February 27, 2016; vested options to purchase 2,500 shares of common stock that expire on December 3, 2017; vested options to purchase 2,500 shares of common stock that expire December 2, 2018; unvested options to purchase 2,500 shares of common stock that expire on December 3, 2017; and unvested options to purchase 7,500 shares of common stock that expire December 2, 2018.

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.