

Ascent Solar Technologies, Inc.

Form 4

August 21, 2007

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

Check this box  
if no longer  
subject to  
Section 16.  
Form 4 or  
Form 5  
obligations  
may continue.  
See Instruction  
1(b).

**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

## OMB APPROVAL

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(Print or Type Responses)

1. Name and Address of Reporting Person \*  
Armstrong Joseph H

(Last) (First) (Middle)

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

(Street)

LITTLETON, CO 80127

(City) (State) (Zip)

2. Issuer Name **and** Ticker or Trading  
Symbol  
Ascent Solar Technologies, Inc.  
[ASTI]

3. Date of Earliest Transaction  
(Month/Day/Year)  
08/20/2007

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

5. Relationship of Reporting Person(s) to  
Issuer

(Check all applicable)

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

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

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

| 1. Title of<br>Security<br>(Instr. 3) | 2. Transaction Date<br>(Month/Day/Year) | 2A. Deemed<br>Execution Date, if<br>any<br>(Month/Day/Year) | 3.<br>Transaction<br>Code<br>(Instr. 8) | 4. Securities Acquired<br>(A) or Disposed of<br>(D)<br>(Instr. 3, 4 and 5) | 5. Amount of<br>Securities<br>Beneficially<br>Owned<br>Following<br>Reported<br>Transaction(s)<br>(Instr. 3 and 4) | 6. Ownership<br>Form: Direct<br>(D) or<br>Indirect (I)<br>(Instr. 4) | 7. Nature of<br>Indirect<br>Beneficial<br>Ownership<br>(Instr. 4) |
|---------------------------------------|-----------------------------------------|-------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------|
|                                       |                                         |                                                             |                                         | (A)<br>or<br>(D)                                                           |                                                                                                                    |                                                                      |                                                                   |
|                                       |                                         |                                                             | Code                                    | V                                                                          | Amount                                                                                                             |                                                                      | Price                                                             |
| Common<br>Stock                       | 08/20/2007                              |                                                             | M                                       |                                                                            | 1,000                                                                                                              | A                                                                    | \$<br>4.25                                                        |
| Common<br>Stock                       | 08/20/2007                              |                                                             | S <sup>(1)</sup>                        |                                                                            | 1,000                                                                                                              | D                                                                    | \$<br>7.42                                                        |
|                                       |                                         |                                                             |                                         |                                                                            |                                                                                                                    | 53,445                                                               | D                                                                 |
|                                       |                                         |                                                             |                                         |                                                                            |                                                                                                                    | 52,445                                                               | D                                                                 |

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

**Persons who respond to the collection of  
information contained in this form are not  
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SEC 1474  
(9-02)

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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)         | \$ 4.25                                                | 08/20/2007                           |                                                    | M                              | 1,000                                                                                   | 03/31/2006 <sup>(2)</sup> 02/27/2016                     | Common Stock 1,000                                            |

## Reporting Owners

| Reporting Owner Name / Address                                                                           | Relationships |           |                        |       |
|----------------------------------------------------------------------------------------------------------|---------------|-----------|------------------------|-------|
|                                                                                                          | Director      | 10% Owner | Officer                | Other |
| Armstrong Joseph H<br>C/O ASCENT SOLAR TECHNOLOGIES, INC.<br>8120 SHAFFER PARKWAY<br>LITTLETON, CO 80127 |               |           | Vice President and CTO |       |

## Signatures

David C. Wang, as attorney-in-fact for Joseph Armstrong 08/21/2007

\_\_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 sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reported person on June 26, 2007.
- (2) Of the remaining unvested options in this grant, options to purchase 3,572 vest on September 30, 2007, March 31, 2008 and September 30, 2008, and options to purchase 3,568 vest on March 31, 2009.
- Following this transaction, Mr. Armstrong holds the following securities: vested options (or options that will vest within 60 days) to
- (3) purchase 13,288 shares of common stock that expire February 27, 2016; unvested options to purchase 17,000 shares of common stock that expire on November 18, 2015; and unvested options to purchase 10,712 shares of common stock that expire 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.

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