

Ascent Solar Technologies, Inc.

Form 4

March 23, 2011

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

OMB APPROVAL

OMB Number: 3235-0287

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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

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
**MARSH G THOMAS**

(Last) (First) (Middle)

**C/O ASCENT SOLAR  
TECHNOLOGIES, INC., 12300  
GRANT STREET**

(Street)

**THORNTON, CO 80241**

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
**Ascent Solar Technologies, Inc.  
[ASTI]**3. Date of Earliest Transaction  
(Month/Day/Year)  
**03/21/2011**4. If Amendment, Date Original  
Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

☒ Director ☐ 10% Owner  
☐ Officer (give title below) ☐ Other (specify below)6. Individual or Joint/Group Filing(Check Applicable Line)  
☒ 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 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) |
|---------------------------------|--------------------------------------|----------------------------------------------------|--------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------|
| Common Stock                    | 03/21/2011                           |                                                    | M                              | 4,092 A                                                           | \$ 0 (1) 11,836                                                                               | 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 required to respond unless the form displays a currently valid OMB control number.**SEC 1474  
(9-02)**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<br>Derivative<br>Security<br>(Instr. 3) | 2.<br>Conversion<br>or Exercise<br>Price of<br>Derivative<br>Security | 3. Transaction Date<br>(Month/Day/Year) | 3A. Deemed<br>Execution Date, if<br>any<br>(Month/Day/Year) | 4.<br>Transaction<br>Code<br>(Instr. 8) | 5. Number<br>of Derivative<br>Securities<br>Acquired<br>(A) or<br>Disposed of<br>(D)<br>(Instr. 3, 4,<br>and 5) | 6. Date Exercisable and<br>Expiration Date<br>(Month/Day/Year) |     | 7. Title and Amount of<br>Underlying Securities<br>(Instr. 3 and 4) |                    | 8. Pr<br>Deriv<br>Secur<br>(Instr |                                        |
|-----------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-----|---------------------------------------------------------------------|--------------------|-----------------------------------|----------------------------------------|
|                                                     |                                                                       |                                         |                                                             | Code                                    | V                                                                                                               | (A)                                                            | (D) | Date<br>Exercisable                                                 | Expiration<br>Date | Title                             | Amount<br>or<br>Number<br>of<br>Shares |
| Restricted<br>Stock<br>Units                        | (1)                                                                   | 03/21/2011                              |                                                             | M                                       |                                                                                                                 | 4,092                                                          |     | (2)                                                                 | (2)                | Common<br>Stock                   | 4,092                                  |

## Reporting Owners

| Reporting Owner Name / Address                                                                    | Relationships |           |         |       |
|---------------------------------------------------------------------------------------------------|---------------|-----------|---------|-------|
|                                                                                                   | Director      | 10% Owner | Officer | Other |
| MARSH G THOMAS<br>C/O ASCENT SOLAR TECHNOLOGIES, INC.<br>12300 GRANT STREET<br>THORNTON, CO 80241 |               |           | X       |       |

## Signatures

/s/ Jason Day,  
Attorney-in-Fact

03/23/2011

\*\*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 four equal installments on March 21, 2011, June 20, 2011, September 19, 2011 and December 19, 2011.

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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