

Moghadam Farhad
 Form 4
 February 05, 2010

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 *
 Moghadam Farhad

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

5. Relationship of Reporting Person(s) to Issuer
 (Check all applicable)
 Director 10% Owner
 Officer (give title below) Other (specify below)
 President and CEO

(Last) (First) (Middle)
 C/O ASCENT SOLAR
 TECHNOLOGIES, INC., 12300
 GRANT STREET
 (Street)

3. Date of Earliest Transaction
 (Month/Day/Year)
 02/03/2010

THORNTON, CO 80241
 (City) (State) (Zip)

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

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 Indirect Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|--|
| | | | | (A) or (D) | Price | | |
| Common Stock | 02/03/2010 | | M | 32,480 | A | 46,480 | D |
| Common Stock | 02/04/2010 | | S | 11,010 | D | \$ 4,1285 | D |

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

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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 Security (Instr. 3 and 4) |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|
| | | | | Code V (A) (D) | | Date Exercisable Expiration Date | Title |
| Restricted Stock Units | (1) | 02/03/2010 | | A | 32,480 | 02/03/2010 02/03/2010 | Common Stock 32 |
| Restricted Stock Unit | (1) | 02/03/2010 | | M | 32,480 | 02/03/2010 02/03/2010 | Common Stock 32 |

Reporting Owners

Reporting Owner Name / Address

Relationships

Director 10% Owner Officer Other

Moghadam Farhad
C/O ASCENT SOLAR TECHNOLOGIES, INC.
12300 GRANT STREET
THORNTON, CO 80241

President and CEO

Signatures

David C. Wang, as attorney-in-fact for Farhad Moghadam

02/05/2010

**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 February 3, 2010. Each restricted stock unit represents a contingent right to receive one share of the Issuer's common stock.

(2) Dr. Moghadam also holds the following derivative securities: unvested stock options to purchase 100,000 shares of common stock that expire on August 3, 2019; unvested stock options to purchase 200,000 shares of common stock that expire on August 3, 2019; 55,000 unvested restricted stock units that expire on August 3, 2011; and 35,000 unvested restricted stock units that expire on August 3, 2012. 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.