

Moghadam Farhad  
 Form 3  
 August 05, 2009

**FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

OMB APPROVAL

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**INITIAL STATEMENT OF 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)

<p>1. Name and Address of Reporting Person *</p> <p>Â Moghadam Farhad</p> <p>(Last) (First) (Middle)</p> <p>C/O ASCENT SOLAR TECHNOLOGIES, INC.,Â 12300 GRANT STREET</p> <p>(Street)</p> <p>THORNTON,Â COÂ 80241</p> <p>(City) (State) (Zip)</p>	<p>2. Date of Event Requiring Statement</p> <p>(Month/Day/Year)</p> <p>08/03/2009</p>	<p>3. Issuer Name and Ticker or Trading Symbol</p> <p>Ascent Solar Technologies, Inc. [ASTI]</p>	<p>4. Relationship of Reporting Person(s) to Issuer</p> <p>(Check all applicable)</p> <p><input type="checkbox"/> Director <input type="checkbox"/> 10% Owner  <input checked="" type="checkbox"/> Officer <input type="checkbox"/> Other                  (give title below) (specify below)                  President and CEO</p>	<p>5. If Amendment, Date Original Filed(Month/Day/Year)</p>	<p>6. Individual or Joint/Group Filing(Check Applicable Line)</p> <p><input checked="" type="checkbox"/> Form filed by One Reporting Person  <input type="checkbox"/> Form filed by More than One Reporting Person</p>
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**Table I - Non-Derivative Securities Beneficially Owned**

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
Common Stock	14,000 <sup>(1)</sup>	D	Â

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

SEC 1473 (7-02)

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**Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)	3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)	4. Conversion or Exercise Price of Derivative	5. Ownership Form of Derivative Security:	6. Nature of Indirect Beneficial Ownership (Instr. 5)
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	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Security	Direct (D) or Indirect (I) (Instr. 5)	
Restricted Stock Units	08/03/2011 <sup>(2)</sup>	∞ <sup>(2)</sup>	Common Stock	55,000	\$ <sup>(3)</sup>	D	∞
Restricted Stock Units	08/03/2012 <sup>(4)</sup>	∞ <sup>(4)</sup>	Common Stock	35,000	\$ <sup>(3)</sup>	D	∞
Common Stock Option (Right to Buy)	08/03/2010 <sup>(5)</sup>	08/03/2019	Common Stock	100,000	\$ 0	D	∞
Common Stock Option (Right to Buy)	08/03/2010 <sup>(5)</sup>	08/03/2019	Common Stock	200,000	\$ 0	D	∞

## 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 08/05/2009

\_\_Signature of Reporting Person

Date

## Explanation of Responses:

\* If the form is filed by more than one reporting person, *see* Instruction 5(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).

- Of the restricted stock units granted to Dr. Moghadam on August 3, 2009, 20,000 vested immediately. Pursuant to the award agreement
- (1) and the Issuer's 2008 Restricted Stock Plan under which the award was made, 6,000 shares were retained by the Issuer for purposes of tax withholding, resulting in a net issuance of 14,000 shares.
  - (2) The restricted stock units vest in the following amounts on the following dates: 20,000 on August 3, 2011; 15,000 on August 3, 2012; and 20,000 on August 3, 2013.
  - (3) Each restricted stock unit represents a contingent right to receive one share of the Issuer's common stock.
  - (4) Up to 15,000 restricted stock units will vest on August 3, 2012, and up to 20,000 restricted stock units will vest on August 3, 2013, in each case the Issuer's Board of Directors or its Compensation Committee will determine the total amount to be vested based upon an evaluation of the Dr. Moghadam's performance relative to agreed upon performance criteria.
  - (5) The stock option vests in the following amounts on the following dates: 25% of the option vests on August 3, 2010; 25% of the option vests on August 3, 2011; 25% of the option vests on August 3, 2012; and 25% of the option vests on August 3, 2013.

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.