

Ascent Solar Technologies, Inc.
 Form 4
 January 03, 2008

FORM 4

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

OMB APPROVAL

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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 *
 Misra Mohan

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)
 01/02/2008

Director 10% Owner
 Officer (give title below) Other (specify below)
 Chief Strategy Officer

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 or Price			
Common Stock	01/02/2008		S ⁽¹⁾	100 D \$ 25.02	409,900 ⁽²⁾	D	
Common Stock	01/02/2008		S ⁽¹⁾	500 D \$ 25.1	409,400 ⁽²⁾	D	
Common Stock	01/02/2008		S ⁽¹⁾	2,600 D \$ 25.11	406,800 ⁽²⁾	D	
Common Stock	01/02/2008		S ⁽¹⁾	961 D \$ 25.25	405,839 ⁽²⁾	D	
	01/02/2008		S ⁽¹⁾	1,500 D	404,339 ⁽²⁾	D	

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Common Stock						\$ 25.26		
Common Stock	01/02/2008	S ⁽¹⁾	800	D		\$ 25.27	403,539 ⁽²⁾	D
Common Stock	01/02/2008	S ⁽¹⁾	500	D		\$ 25.31	403,039 ⁽²⁾	D
Common Stock	01/02/2008	S ⁽¹⁾	1,802	D		\$ 25.32	401,237 ⁽²⁾	D
Common Stock	01/02/2008	S ⁽¹⁾	600	D		\$ 25.35	400,637 ⁽²⁾	D
Common Stock	01/02/2008	S ⁽¹⁾	100	D		\$ 25.36	400,537 ⁽²⁾	D
Common Stock	01/02/2008	S ⁽¹⁾	37	D		\$ 25.37	400,500 ⁽²⁾	D
Common Stock	01/02/2008	S ⁽¹⁾	300	D		\$ 25.56	400,200 ⁽²⁾	D

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

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(9-02)

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)	8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned (Instr. 6)
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Date Exercisable	Expiration Date	Title	Amount or Number of Shares
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Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other

Misra Mohan C/O ASCENT SOLAR TECHNOLOGIES, INC. 8120 SHAFFER PARKWAY LITTLETON, CO 80127	X	X	Chief Strategy Officer
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Signatures

David C. Wang, as attorney-in-fact for Mohan Misra	01/03/2008
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__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 reporting person on June 26, 2007.
- (2) Dr. Misra also holds options to purchase 50,000 shares.

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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