

Ascent Solar Technologies, Inc.  
Form 4  
August 16, 2007

**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 Ashutosh

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)  
08/14/2007

\_\_\_ Director \_\_\_ 10% Owner  
 Officer (give title below) \_\_\_ Other (specify below)  
SVP Operations & Corp. Affairs

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)
				(A) or (D)	Price		
				Code	V	Amount	
Common Stock	08/14/2007		S(1)	D	400	\$ 7.43	55,600 (2) D
Common Stock	08/14/2007		S(1)	D	100	\$ 7.44	55,500 (2) D
Common Stock	08/14/2007		S(1)	D	200	\$ 7.45	55,300 (2) D
Common Stock	08/14/2007		S(1)	D	500	\$ 7.46	54,800 (2) D
	08/14/2007		S(1)	D	800	\$ 7.5	54,000 (2) D

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Common Stock							
Common Stock	08/14/2007	S <sup>(1)</sup>	100	D	\$ 7.51	53,900 <sup>(2)</sup>	D
Common Stock	08/14/2007	S <sup>(1)</sup>	100	D	\$ 7.52	53,800 <sup>(2)</sup>	D
Common Stock	08/14/2007	S <sup>(1)</sup>	215	D	\$ 7.53	53,585 <sup>(2)</sup>	D
Common Stock	08/14/2007	S <sup>(1)</sup>	400	D	\$ 7.54	53,185 <sup>(2)</sup>	D
Common Stock	08/14/2007	S <sup>(1)</sup>	285	D	\$ 7.55	52,900 <sup>(2)</sup>	D
Common Stock	08/14/2007	S <sup>(1)</sup>	400	D	\$ 7.56	52,500 <sup>(2)</sup>	D
Common Stock	08/14/2007	S <sup>(1)</sup>	100	D	\$ 7.62	52,400 <sup>(2)</sup>	D
Common Stock	08/14/2007	S <sup>(1)</sup>	100	D	\$ 7.63	52,300 <sup>(2)</sup>	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 Following Reported Transaction (Instr. 6)
						Date Exercisable	Expiration Date	Title	Amount or Number of Shares
						Code	V	(A)	(D)

# Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Misra Ashutosh C/O ASCENT SOLAR TECHNOLOGIES, INC. 8120 SHAFFER PARKWAY LITTLETON, CO 80127			SVP Operations & Corp. Affairs	

# Signatures

David C. Wang, as attorney-in-fact for Ashutosh Misra	08/16/2007
**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 reporting person on June 22, 2007.
- (2) Mr. Misra also holds the following securities: 4,000 Class B Warrants; vested options to purchase 24,000 shares of common stock; and unvested options to purchase 10,000 shares of 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.