

Ascent Solar Technologies, Inc.  
 Form 4/A  
 July 31, 2007

**FORM 4**

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

OMB APPROVAL

OMB Number: 3235-0287  
 Expires: January 31, 2005  
 Estimated average burden hours per response... 0.5

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)  
 C/O ASCENT SOLAR TECHNOLOGIES, INC., 8120 SHAFFER PARKWAY

3. Date of Earliest Transaction (Month/Day/Year)  
 07/10/2007

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

(Street)  
 LITTLETON, CO 80127

4. If Amendment, Date Original Filed(Month/Day/Year)  
 07/11/2007

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

(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	07/10/2007		S <sup>(1)</sup>	D	800	\$ 9.28	59,200 <sup>(3)</sup> D
Common Stock	07/10/2007		S <sup>(1)</sup>	D	400 <sup>(2)</sup>	\$ 9.29	58,800 <sup>(3)</sup> D
Common Stock	07/10/2007		S <sup>(1)</sup>	D	2,000 <sup>(2)</sup>	\$ 9.32	56,800 <sup>(3)</sup> D
Common Stock	07/10/2007		S <sup>(1)</sup>	D	300 <sup>(2)</sup>	\$ 9.35	56,500 <sup>(3)</sup> D
	07/10/2007		S <sup>(1)</sup>	D	400		56,100 <sup>(3)</sup> D



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- (2) This line is amended to reflect that the securities sold were disposed of rather than acquired as originally reported in the reporting person's Form 4 filed on July 11, 2007.
- (3) Mr. Misra also holds 4,000 Class B Warrants and 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.