

Misra Mohan  
 Form 4  
 February 05, 2008

**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 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)  
 02/01/2008

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)
				(A) or (D)	Price		
Common Stock	02/01/2008		S <sup>(1)</sup>	D	\$ 571 15.26	396,253 <sup>(2)</sup>	D
Common Stock	02/01/2008		S <sup>(1)</sup>	D	\$ 136 15.31	396,117 <sup>(2)</sup>	D
Common Stock	02/01/2008		S <sup>(1)</sup>	D	\$ 857 15.32	395,260 <sup>(2)</sup>	D
Common Stock	02/01/2008		S <sup>(1)</sup>	D	\$ 1,000 15.33	394,260 <sup>(2)</sup>	D
	02/01/2008		S <sup>(1)</sup>	D		393,968 <sup>(2)</sup>	D

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Common Stock						\$ 15.34			
Common Stock	02/01/2008	S <sup>(1)</sup>	571	D		\$ 15.35	393,397 <sup>(2)</sup>	D	
Common Stock	02/01/2008	S <sup>(1)</sup>	71	D		\$ 15.36	393,326 <sup>(2)</sup>	D	
Common Stock	02/01/2008	S <sup>(1)</sup>	180	D		\$ 15.38	393,146 <sup>(2)</sup>	D	
Common Stock	02/01/2008	S <sup>(1)</sup>	286	D		\$ 15.4	392,860 <sup>(2)</sup>	D	
Common Stock	02/01/2008	S <sup>(1)</sup>	786	D		\$ 15.41	392,074 <sup>(2)</sup>	D	
Common Stock	02/01/2008	S <sup>(1)</sup>	143	D		\$ 15.42	391,931 <sup>(2)</sup>	D	
Common Stock							842,000	I	By ITN Energy Systems, Inc. <sup>(3)</sup>

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

**Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.**

SEC 1474  
(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 Owned Beneficially (Instr. 3, 4, and 5)
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares

## Reporting Owners

Reporting Owner Name / Address

Relationships

Reporting Owners

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	Director	10% Owner	Officer	Other
Misra Mohan C/O ASCENT SOLAR TECHNOLOGIES, INC. 8120 SHAFFER PARKWAY LITTLETON, CO 80127	X	X	Chief Strategy Officer	

## Signatures

David C. Wang, as attorney-in-fact for Mohan Misra	02/05/2008
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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.
- (3) Dr. Misra indirectly owns 842,000 shares held by ITN Energy Systems, Inc., which is 100% owned by Inica, Inc., a Colorado corporation that is wholly owned by Dr. Misra and an immediate family member.

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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