

Ascent Solar Technologies, Inc.

Form 4

August 16, 2007

FORM 4**UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549**

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

OMB APPROVAL

OMB
Number: 3235-0287
Expires: January 31,
2005
Estimated average
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(Print or Type Responses)

1. Name and Address of Reporting Person *
Misra Ashutosh

(Last) (First) (Middle)

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

(Street)

LITTLETON, CO 80127

(City) (State) (Zip)

2. Issuer Name **and** Ticker or Trading
Symbol
Ascent Solar Technologies, Inc.
[ASTI]

3. Date of Earliest Transaction
(Month/Day/Year)
08/14/2007

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

5. Relationship of Reporting Person(s) to
Issuer

(Check all applicable)

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

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

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

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Common
Stock

Common Stock	08/14/2007	S ⁽¹⁾	100	D	\$ 7.51	53,900 ⁽²⁾	D
Common Stock	08/14/2007	S ⁽¹⁾	100	D	\$ 7.52	53,800 ⁽²⁾	D
Common Stock	08/14/2007	S ⁽¹⁾	215	D	\$ 7.53	53,585 ⁽²⁾	D
Common Stock	08/14/2007	S ⁽¹⁾	400	D	\$ 7.54	53,185 ⁽²⁾	D
Common Stock	08/14/2007	S ⁽¹⁾	285	D	\$ 7.55	52,900 ⁽²⁾	D
Common Stock	08/14/2007	S ⁽¹⁾	400	D	\$ 7.56	52,500 ⁽²⁾	D
Common Stock	08/14/2007	S ⁽¹⁾	100	D	\$ 7.62	52,400 ⁽²⁾	D
Common Stock	08/14/2007	S ⁽¹⁾	100	D	\$ 7.63	52,300 ⁽²⁾	D

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

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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 Beneficially Owned Following Reported Transaction (Instr. 6)
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares

Signatures

08/16/2007

Date _____

Explanation of Responses:

- 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.