Ascent Solar Technologies, Inc.

Form 4

August 16, 2007

FORM 4

OMB APPROVAL UNITED STATES SECURITIES AND EXCHANGE COMMISSION OMB

Washington, D.C. 20549

549 OMB Number:

Check this box if no longer subject to Section 16.
Form 4 or

Section 2 Section 2 Section 3 Section 4 or

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January 31,

Form 5 obligations may continue. See Instruction

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

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * 2. Issuer Name and Ticker or Trading Misra Ashutosh Symbol 5. Relationship of Reporting Person(s) to Issuer

Ascent Solar Technologies, Inc. (Check all applicable)

[ASTI]

TECHNOLOGIES, INC., 8120 SHAFFER PARKWAY

4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check

Filed(Month/Day/Year) Applicable Line)

X Form filed by One Reporting Person
____ Form filed by More than One Reporting

LITTLETON, CO 80127

(Street)

(City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1.Title of 2. Transaction Date 2A. Deemed 3. 4. Securities Acquired 5. Amount of 6. Ownership 7. Nature of Security (Month/Day/Year) Execution Date, if Transaction(A) or Disposed of Securities Form: Direct Indirect (Instr. 3) Code Beneficially (D) or Beneficial (D) (Month/Day/Year) (Instr. 8) (Instr. 3, 4 and 5) Owned Indirect (I) Ownership Following (Instr. 4) (Instr. 4) Reported (A) Transaction(s) (Instr. 3 and 4) (D) Price Amount Common 08/14/2007 $S^{(1)}$ 300 52,000 (2) D Stock

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)

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1. Title of Derivative		3. Transaction Date (Month/Day/Year)		4. Transactio	5. orNumber	6. Date Exerc Expiration Da		7. Title and Amount of		8. Price of Derivative	9. Nu Deriv
Security (Instr. 3)	or Exercise Price of Derivative Security	(Monan Day) Teal)	any (Month/Day/Year)	Code (Instr. 8)	of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	(Month/Day/		Underly Securiti (Instr. 3	ying les	Security (Instr. 5)	Secur Bene Owne Follo Repo Trans (Instr
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title N	Amount or Number of Shares		

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.

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