KUMAR AMIT Form 4 January 05, 2010

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

OMB Number:

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OMB APPROVAL

Check this box if no longer subject to Section 16. Form 4 or Form 5

SECURITIES Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue. 30(h) of the Investment Company Act of 1940

See Instruction 1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * **KUMAR AMIT**

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) 3. Date of Earliest Transaction

(Month/Day/Year) 12/31/2009

X_ Director 10% Owner Other (specify Officer (give title

C/O COMBIMATRIX CORPORATION, 6500 HARBOUR HEIGHTS PARKWAY, SUITE 303

> (Street) 4. If Amendment, Date Original

(Middle)

Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check

Applicable Line)

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

MUKILTEO, WA 98275

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

1.Title of Security (Instr. 3)

Stock

2. Transaction Date 2A. Deemed (Month/Day/Year)

Execution Date, if

(Month/Day/Year)

3. TransactionAcquired (A) or Disposed of (D) Code (Instr. 8)

4. Securities (Instr. 3, 4 and 5) 5. Amount of Securities Beneficially Owned Following Reported

6. Ownership 7. Nature of Form: Direct (D) or Indirect (I) (Instr. 4)

Indirect Beneficial Ownership (Instr. 4)

(A)

Transaction(s) (Instr. 3 and 4) Price Amount (D)

Common 12/31/2009

3,523 $M^{(1)}$ (1)

(1) 18,075

D

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

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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 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. Transactio Code (Instr. 8)	5. Number on Derivative Securities Acquired Disposed (Instr. 3, 4	(A) or of (D)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)	
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Restricte Stock Units	d <u>(1)</u>	12/31/2009		M(1)		3,523 (1)	<u>(1)</u>	<u>(1)</u>	Common Stock	3,523 (1)
Restricte Stock Units	d (3)	01/01/2010		A	11,508		(3)	(3)	Common Stock	11,508

Reporting Owners

	Relationships					
Reporting Owner Name / Address	Director	10% Owner	Officer	Other		
KUMAR AMIT C/O COMBIMATRIX CORPORATION 6500 HARBOUR HEIGHTS PARKWAY, SUITE 303 MUKILTEO, WA 98275	X					

Signatures

David C. Wang, as attorney-in-fact for Amit
Kumar

**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) Represents restricted stock units that fully vested on December 31, 2009. Each restricted stock unit represents a contingent right to receive one share of the Issuer's common stock.
- (2) In addition to the restricted stock units, Dr. Kumar holds vested options to purchase 8,000 shares of common stock that expire on June 30, 2017.
- (3) These newly granted restricted stock units vest quarterly in 2010. Each restricted stock unit represents a contingent right to receive one share of the Issuer's 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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