Eller Ron Form 4 October 02, 2009

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

OMB APPROVAL

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

Check this box

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

(Print or Type Responses)

1(b).

1. Name and Address of Reporting Person * Eller Ron

2. Issuer Name and Ticker or Trading Symbol

Issuer

Ascent Solar Technologies, Inc.

(Month/Day/Year)

09/30/2009

(Check all applicable)

5. Relationship of Reporting Person(s) to

[ASTI]

(Middle)

(Last) (First) 3. Date of Earliest Transaction

X_ Director 10% Owner

Other (specify Officer (give title

C/O ASCENT SOLAR TECHNOLOGIES, INC., 12300

GRANT STREET

(Street)

4. If Amendment, Date Original

Applicable Line)

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

D

6. Individual or Joint/Group Filing(Check

Filed(Month/Day/Year)

THORNTON, CO 80241

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

1.Title of Security (Instr. 3)

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

(Month/Day/Year)

3. 4. Securities TransactionAcquired (A) or Disposed of (D) Code (Instr. 8) (Instr. 3, 4 and 5)

Securities Beneficially Owned Following

5. Amount of

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

Reported Transaction(s)

(Instr. 3 and 4) Code V Amount Price (D)

(A)

Common Stock

09/30/2009

M 1,471 (1)

2,471

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. Transact Code (Instr. 8)	5. Number action Derivative Securities 8) 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. Pr Deri Secu (Inst
				Code V	V (A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Restricted Stock Units	(1)	09/30/2009		M		1,471	(2)	(2)	Common Stock	1,471	

Reporting Owners

Reporting Owner Name / Address	Relationships					
	Director	10% Owner	Officer	Other		
Eller Ron C/O ASCENT SOLAR TECHNOLOGIES, INC. 12300 GRANT STREET THORNTON, CO 80241	X					

Signatures

David C. Wang, as attorney-in-fact for Ron Eller 10/02/2009

**Signature of Reporting Person

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).

Date

- (1) Each restricted stock unit represents a contingent right to receive one share of the Issuer's common stock.
- (2) The remaining 1,471 of restricted stock units vest on December 31, 2009.
- (3) Mr. Eller also holds 1,500 Class B warrants that are immediately exercisable.

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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