

Eller Ron  
Form 4  
January 04, 2011

**FORM 4**

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

OMB APPROVAL

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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 \*  
Eller Ron

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)  
12/31/2010

Director  10% Owner  
 Officer (give title below)  Other (specify below)

C/O ASCENT SOLAR TECHNOLOGIES, INC., 12300 GRANT STREET

(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

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 (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 Indirect Ownership (Instr. 4)
				(A) or (D)	Price		
Common Stock	12/31/2010		M	3,113	A \$ 11,594	D	
Common Stock	01/03/2011		S(2)	1,600	D \$ 3,4263	D	
					(3)		

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

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SEC 1474 (9-02)

number.

**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		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)
					Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		Date Exercisable	Expiration Date	
Restricted Stock Units	(1)	12/31/2010		M	V	(A) 3,113	(D)	(4) (4)	Common Stock 3,113
Restricted Stock Units	(1)	01/04/2011		A		15,772		(5) (5)	Common Stock 15,772

## 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

/s/ Jason Day,  
Attorney-in-Fact 01/04/2011

\*\*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) Each restricted stock unit represents a contingent right to receive one share of the issuer's common stock.

(2) The shares were sold pursuant to a sales plan adopted by the reporting person on January 13, 2010 and intended to comply with Rule 10b5-1 under the Securities Exchange Act of 1934.

(3) The price reported in Column 4 is a weighted average price. The shares were sold in multiple transactions at prices ranging from \$3.41 to \$3.44, inclusive. The reporting person undertakes to provide to the issuer, any shareholder of the issuer, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in this footnote.

(4) The restricted stock units vest in four equal installments on the last day of each fiscal quarter in 2010.

(5) The restricted stock units vest in four equal installments on the last day of each fiscal quarter in 2011.

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