

Eller Ron  
Form 3  
July 08, 2009

**FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

OMB APPROVAL

OMB Number: 3235-0104  
Expires: January 31, 2005  
Estimated average burden hours per response... 0.5

**INITIAL STATEMENT OF 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 *	2. Date of Event Requiring Statement	3. Issuer Name and Ticker or Trading Symbol
Â Eller Ron	(Month/Day/Year)	Ascent Solar Technologies, Inc. [ASTI]
(Last) (First) (Middle)	06/30/2009	
	4. Relationship of Reporting Person(s) to Issuer	5. If Amendment, Date Original Filed(Month/Day/Year)

C/O ASCENT SOLAR TECHNOLOGIES, INC.,Â 12300 GRANT STREET  
(Street)

(Check all applicable)

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

THORNTON,Â COÂ 80241  
(City) (State) (Zip)

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

**Table I - Non-Derivative Securities Beneficially Owned**

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
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Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

SEC 1473 (7-02)

**Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.**

**Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)	3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)	4. Conversion or Exercise Price of Derivative Security	5. Ownership Form of Derivative Security: Direct (D)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of	

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				Shares		or Indirect (1) (Instr. 5)	
Restricted Stock Units	Â (1)	Â (1)	Common Stock	1,918	\$ (2)	D	Â

## Reporting Owners

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

## Signatures

Jason H. Barker, as attorney-in-fact for  
Ron Eller

07/08/2009

\*\*Signature of Reporting Person

Date

## Explanation of Responses:

- \* If the form is filed by more than one reporting person, *see* Instruction 5(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 restricted stock units vest in the following amounts on the following dates: 50% on September 30, 2009; and 50% on December 31, 2009.
- (2) 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.