

Eller Ron
Form 3
July 08, 2009

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

OMB APPROVAL

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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) |
|------------------------------------|--|---|--|

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.