

Gutierrez Rafael  
Form 3  
October 07, 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 <b>and</b> Ticker or Trading Symbol |                                                                        |
| Â Gutierrez Rafael                                       |         | (Month/Day/Year)                     | Ascent Solar Technologies, Inc. [ASTI]             |                                                                        |
| (Last)                                                   | (First) | (Middle)                             | 09/28/2009                                         |                                                                        |
| C/O ASCENT SOLAR TECHNOLOGIES, INC.,Â 12300 GRANT STREET |         |                                      | 4. Relationship of Reporting Person(s) to Issuer   | 5. If Amendment, Date Original Filed(Month/Day/Year)                   |
| (Street)                                                 |         |                                      | (Check all applicable)                             |                                                                        |
| THORNTON,Â COÂ 80241                                     |         |                                      | <input type="checkbox"/> Director                  | <input type="checkbox"/> 10% Owner                                     |
| (City)                                                   | (State) | (Zip)                                | <input checked="" type="checkbox"/> Officer        | <input type="checkbox"/> Other                                         |
|                                                          |         |                                      | (give title below)                                 | (specify below)                                                        |
|                                                          |         |                                      | SVP of Sales and Marketing                         | 6. Individual or Joint/Group Filing(Check Applicable Line)             |
|                                                          |         |                                      |                                                    | <input checked="" type="checkbox"/> Form filed by One Reporting Person |
|                                                          |         |                                      |                                                    | <input type="checkbox"/> Form filed by More than One Reporting Person  |

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

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

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|                                       |       |            |                 | Shares |        | or Indirect<br>(I)<br>(Instr. 5) |   |
|---------------------------------------|-------|------------|-----------------|--------|--------|----------------------------------|---|
| Restricted Stock Units                | Â (1) | Â (1)      | Common<br>Stock | 10,000 | \$ (2) | D                                | Â |
| Common Stock Option<br>(Right to Buy) | Â (3) | 09/28/2019 | Common<br>Stock | 30,000 | \$ 8   | D                                | Â |

## Reporting Owners

| Reporting Owner Name / Address                                                                        | Relationships |           |                                    |       |
|-------------------------------------------------------------------------------------------------------|---------------|-----------|------------------------------------|-------|
|                                                                                                       | Director      | 10% Owner | Officer                            | Other |
| Gutierrez Rafael<br>C/O ASCENT SOLAR TECHNOLOGIES, INC.<br>12300 GRANT STREET<br>THORNTON,Â COÂ 80241 | Â             | Â         | Â SVP of<br>Sales and<br>Marketing | Â     |

## Signatures

Rafael Gutierrez 10/06/2009

\*\*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: 25% on September 28, 2010; 25% on September 28, 2011; 25% on September 28, 2012; 25% on September 28, 2013.
- (2) Each restricted stock unit represents a contingent right to receive one share of the Issuer's common stock.
- (3) The stock option vests in the following amounts on the following dates: 25% on September 28, 2010; 25% on September 28, 2011; 25% on September 28, 2012; and 25% on September 28, 2013.

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.