

Ascent Solar Technologies, Inc.
 Form 5
 September 28, 2007

FORM 5

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

OMB APPROVAL
 OMB Number: 3235-0362
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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).
 Form 3 Holdings Reported Form 4 Transactions Reported

ANNUAL 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

1. Name and Address of Reporting Person *
PAULSON CAPITAL CORP

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. Statement for Issuer's Fiscal Year Ended (Month/Day/Year)
09/01/2007

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

811 SW NAITO PARKWAY, SUITE 200

(Street)

4. If Amendment, Date Original Filed (Month/Day/Year)

6. Individual or Joint/Group Reporting

(check applicable line)

PORTLAND, OR 97204

(City) (State) (Zip)

___ Form Filed by One Reporting Person
 Form Filed by More than One Reporting Person

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) (A) or (D) Price | 5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|--|--|-----------------------------------|
|---------------------------------|--------------------------------------|--|--------------------------------|---|--|--|-----------------------------------|

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

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.

SEC 2270 (9-02)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative | 2. Conversion | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any | 4. Transaction | 5. Number | 6. Date Exercisable and Expiration Date | 7. Title and Amount of | 8. Price of Derivative | 9. Price of |
|------------------------|---------------|--------------------------------------|-----------------------------------|----------------|-----------|---|------------------------|------------------------|-------------|
|------------------------|---------------|--------------------------------------|-----------------------------------|----------------|-----------|---|------------------------|------------------------|-------------|

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| Security (Instr. 3) | or Exercise Price of Derivative Security | any (Month/Day/Year) | Code (Instr. 8) | of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | (Month/Day/Year) | Underlying Securities (Instr. 3 and 4) | Security (Instr. 5) | D | |
|---------------------|--|----------------------|-----------------|---|------------------|--|---------------------|-------|----------------------------|
| | | | | | (A) (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|---|---------------|-----------|---------|-------------|
| | Director | 10% Owner | Officer | Other |
| PAULSON CAPITAL CORP 811 SW NAITO PARKWAY SUITE 200 PORTLAND, OR 97204 | ^ | ^ | ^ | See Remarks |
| PAULSON CHESTER L F 811 SW NAITO PARKWAY SUITE 200 PORTLAND, OR 97204 | ^ | ^ | ^ | See Remarks |
| PAULSON JACQUELINE M 811 SW NAITO PARKWAY SUITE 200 PORTLAND, OR 97204 | ^ | ^ | ^ | See Remarks |

Signatures

| | |
|--|------------|
| Harry L. Striplin, Attorney-in-Fact for Chester L.F. Paulson | 09/28/2007 |
| **Signature of Reporting Person | Date |
| Harry L. Striplin, Authorized Agent for Paulson Capital Corp. | 09/28/2007 |
| **Signature of Reporting Person | Date |
| Harry L. Striplin, Authorized Agent for Paulson Investment Co., Inc. | 09/28/2007 |
| **Signature of Reporting Person | Date |
| Harry L. Striplin, Authorized Agent for Paulson Family LLC | 09/28/2007 |
| **Signature of Reporting Person | Date |
| Harry L. Striplin, Attorney-in-Fact for Jacqueline M. Paulson | 09/28/2007 |
| **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).

^

Remarks:

Form^ filed^ by^ more^ than^ one^ reporting^ person.^ ^ In^ addition^ to^ Paulson^ Capital^ Corp.^ ("PLCC"),^ th

Note: File three copies of this Form, one of which must be manually signed. If space provided 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.