

Ascent Solar Technologies, Inc.

Form 3

May 14, 2007

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

OMB APPROVAL

OMB
Number: 3235-0104Expires: January 31,
2005Estimated 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 *

Â PAULSON CAPITAL CORP

(Last) (First) (Middle)

811 SW NAITO
PARKWAY,Â SUITE 200

(Street)

PORTLAND,Â ORÂ 97204

(City) (State) (Zip)

2. Date of Event Requiring
Statement

(Month/Day/Year)

05/11/2007

3. Issuer Name **and** Ticker or Trading Symbol
Ascent Solar Technologies, Inc. [ASTI]4. Relationship of Reporting
Person(s) to Issuer5. If Amendment, Date Original
Filed(Month/Day/Year)

(Check all applicable)

☐ Director ☒ 10% Owner☐ Officer ☒ Other

(give title below) (specify below)

See Footnote (1)

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)Date Expiration
Exercisable Date3. Title and Amount of
Securities Underlying
Derivative Security
(Instr. 4)Title Amount or
Number of
Shares4. Conversion
or Exercise
Price of
Derivative
Security5. Ownership
Form of
Derivative
Security:
Direct (D)
or Indirect
(I)6. Nature of Indirect
Beneficial
Ownership
(Instr. 5)

(Instr. 5)

Underwriter Warrants (Right to Buy Unit)	07/10/2007	07/10/2011	Common Stock	987,600 (2)	\$ 6.6 (2)	I	See Footnote (1)
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Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
PAULSON CAPITAL CORP 811 SW NAITO PARKWAY SUITE 200 PORTLAND, OR 97204	Â	Â X	Â	See Footnote (1)
PAULSON CHESTER L F 811 SW NAITO PARKWAY SUITE 200 PORTLAND, OR 97204	Â	Â X	Â	See Footnote (1)
PAULSON JACQUELINE M 811 SW NAITO PARKWAY SUITE 200 PORTLAND, OR 97204	Â	Â X	Â	See Footnote (1)

Signatures

Harry L. Striplin, Attorney-in-Fact for Chester L.F. Paulson	05/14/2007
Signature of Reporting Person	Date
Harry L. Striplin, Authorized Agent for Paulson Capital Corp.	05/14/2007
Signature of Reporting Person	Date
Harry L. Striplin, Authorized Agent for Paulson Investment Co., Inc.	05/14/2007
Signature of Reporting Person	Date
Harry L. Striplin, Authorized Agent for Paulson Family LLC.	05/14/2007
Signature of Reporting Person	Date
Harry L. Striplin, Attorney-in-Fact for Jacqueline M. Paulson	05/14/2007
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).
- Form filed by more than one reporting person. In addition to Paulson Capital Corp. ("PLCC"), the following are reporting parties: Chester L.F. Paulson, Jacqueline M. Paulson, Paulson Family LLC ("LLC") and Paulson Investment Company, Inc. ("PICI"). These reporting parties collectively own over 10%. The address for each of the reporting parties is the same as that provided for PLCC. PICI is a registered broker-dealer and a wholly owned subsidiary of PLCC. Mr. and Mrs. Paulson are controlling managers of the LLC, which is a controlling shareholder of PLCC, which is the parent company of PICI. Mr. and Mrs. Paulson and the LLC expressly disclaim any beneficial ownership of securities held in the name of PLCC and PICI.
- (1) The Reporting Persons own 246,900 Underwriter Warrants. One (1) Underwriter Warrants is exercisable at \$6.60 into one (1) Unit of Ascent Solar Technologies, Inc. Each Unit consist of one (1) share of common stock, one (1) Class A Warrant and two (2) Class B

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Warrants. Each Class A Warrant is exercisable at \$6.60 into one (1) share of common stock and expire July 10, 2011. Each Class B Warrant is exercisable at \$11.00 into one (1) share of common stock and expire July 10, 2011.

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.