

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

# FORM 5

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

OMB APPROVAL

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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 *			2. Issuer Name <b>and</b> Ticker or Trading Symbol	5. Relationship of Reporting Person(s) to Issuer
PAULSON CAPITAL CORP			Ascent Solar Technologies, Inc. [ASTI]	(Check all applicable)
(Last)	(First)	(Middle)	3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year)	<input type="checkbox"/> Director <input type="checkbox"/> Officer (give title below) <input checked="" type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Other (specify below) See Remarks
811 SW NAITO PARKWAY, SUITE 200			09/01/2007	
(Street)			4. If Amendment, Date Original Filed (Month/Day/Year)	6. Individual or Joint/Group Reporting (check applicable line)
PORTLAND, OR 97204				<input type="checkbox"/> Form Filed by One Reporting Person <input checked="" type="checkbox"/> 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)	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)
				(A) or (D) Price			

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

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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).

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### 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.