Ascent Solar Technologies, Inc.

Form 4

November 21, 2007

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

OMB 3235-0287

Check this box if no longer

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

Number: January 31, Expires: 2005

OMB APPROVAL

subject to Section 16. Form 4 or Form 5

SECURITIES

Estimated average burden hours per response... 0.5

obligations may continue. See Instruction

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(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * Casteel Janet

2. Issuer Name and Ticker or Trading

Ascent Solar Technologies, Inc.

5. Relationship of Reporting Person(s) to Issuer

Symbol

[ASTI]

(Check all applicable)

(Last) (First) (Middle)

3. Date of Earliest Transaction

Director 10% Owner X_ Officer (give title Other (specify

Chief Accounting Officer

C/O ASCENT SOLAR TECHNOLOGIES, INC., 8120 SHAFFER PARKWAY

(Street)

4. If Amendment, Date Original

6. Individual or Joint/Group Filing(Check

Filed(Month/Day/Year)

(Month/Day/Year)

11/19/2007

Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting

below)

LITTLETON, CO 80127

(City) (State) (Zip) 1 Title of

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. Transactio Code (Instr. 8)	4. Securities Acquired n(A) or Disposed of (D) (Instr. 3, 4 and 5)		5. Amount of Securities Beneficially Owned	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership	
			Code V	Amount	(A) or (D)	Price	Following Reported Transaction(s) (Instr. 3 and 4)	(Instr. 4)	(Instr. 4)
Common Stock	11/19/2007		M	1,000	A	\$ 4.25	18,000	D	
Common Stock	11/19/2007		S(1)	1,000	D	\$ 17	17,000	D	

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

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

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transactic Code (Instr. 8)	5. Number on f Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Common Stock (Option to Buy)	\$ 4.25	11/19/2007		M	1,000	03/31/2006(2)	02/27/2016	Common Stock	1,000

Reporting Owners

Reporting Owner Name / Address	Relationships					
. 0	Director	10% Owner	Officer	Other		
Casteel Janet C/O ASCENT SOLAR TECHNOLOGIES, INC. 8120 SHAFFER PARKWAY LITTLETON, CO 80127			Chief Accounting Officer			

Signatures

David C. Wang, as attorney-in-fact for Janet Casteel 11/21/2007

**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).
- (1) The sale reported in this Form 4 was effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on June 26, 2007.
- (2) Of the remaing unvested options in this grant, options to purchase 3,572 shares vest on March 31, 2008 and September 30, 2008, and options to purchase 3,568 shares vest on March 31, 2009.
- Following this transaction, Ms. Casteel holds the following securities: vested options to purchase 10,287 that expire on February 27, 2016; vested options (or options that will vest within 60 days) to purchase 7,000 shares of common stock that expire on November 18, 2015; unvested options to purchase 10,713 shares of common stock that expire on February 27, 2016; and unvested options to purchase 6,000 shares of common stock that expire on November 18, 2015.

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.

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