

Ascent Solar Technologies, Inc.
 Form 4
 February 21, 2008

FORM 4 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
 Washington, D.C. 20549

OMB APPROVAL

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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

(Print or Type Responses)

1. Name and Address of Reporting Person *
 Foster Matthew

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. Date of Earliest Transaction (Month/Day/Year)
 02/20/2008

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
 President and CEO

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

(Street)

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

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

LITTLETON, CO 80127

(City) (State) (Zip)

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 Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Ownership (Instr. 4)
			Code	V	Amount or Price		
Common Stock	02/20/2008		M		5,000 A \$ 4.25	110,000	D
Common Stock	02/20/2008		S ⁽¹⁾		280 D \$ 15.11	109,720	D
Common Stock	02/20/2008		S ⁽¹⁾		300 D \$ 15.12	109,420	D
Common Stock	02/20/2008		S ⁽¹⁾		300 D \$ 15.19	109,120	D
	02/20/2008		S ⁽¹⁾		875 D	108,245	D

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Common Stock						\$ 15.22			
Common Stock	02/20/2008		S ⁽¹⁾	325	D	\$ 15.23	107,920	D	
Common Stock	02/20/2008		S ⁽¹⁾	800	D	\$ 15.27	107,120	D	
Common Stock	02/20/2008		S ⁽¹⁾	200	D	\$ 15.28	106,920	D	
Common Stock	02/20/2008		S ⁽¹⁾	200	D	\$ 15.29	106,720	D	
Common Stock	02/20/2008		S ⁽¹⁾	500	D	\$ 15.33	106,220	D	
Common Stock	02/20/2008		S ⁽¹⁾	320	D	\$ 15.34	105,900	D	
Common Stock	02/20/2008		S ⁽¹⁾	400	D	\$ 15.4	105,500	D	
Common Stock	02/20/2008		S ⁽¹⁾	200	D	\$ 15.41	105,300	D	
Common Stock							230 ⁽²⁾	I	By Spouse.

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. Transaction Code (Instr. 8)	5. Number of 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	\$ 4.25	02/20/2008		M	5,000	03/31/2006 ⁽³⁾	02/27/2016	Common Stock	5,000

(Right to Buy)

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Foster Matthew C/O ASCENT SOLAR TECHNOLOGIES, INC. 8120 SHAFFER PARKWAY LITTLETON, CO 80127			President and CEO	

Signatures

David C. Wang, as attorney-in-fact for Matthew B. Foster 02/21/2008

__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 sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on June 26, 2007.
- (2) Mr. Foster's spouse also holds 430 Class B warrants.
- (3) Of the remaining unvested options in this grant, options to purchase 14,286 shares vest on March 31, 2008 and September 30, 2008, and options to purchase 14,284 shares vest on March 31, 2009.

Following this transaction, Mr. Foster holds the following derivative securities: vested options (or options that will vest within 60 days) to purchase 46,430 shares of common stock that expire February 27, 2016; vested options to purchase 10,000 shares of common stock that

- (4) expire on November 18, 2015; unvested options to purchase 28,570 shares of common stock that expire February 27, 2016; unvested options to purchase 10,000 shares of common stock that expire on November 18, 2015; and unvested options to purchase 9,000 shares of common stock that expire on December 3, 2017.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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