

Ascent Solar Technologies, Inc.

Form 4

February 28, 2008

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

Check this box
if no longer
subject to
Section 16.
Form 4 or
Form 5
obligations
may continue.
See Instruction
1(b).

**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

OMB APPROVAL

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(Print or Type Responses)

1. Name and Address of Reporting Person *
Quercus Trust

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)

1835 NEWPORT
BLVD., A109-PMB 467

(Street)

3. Date of Earliest Transaction
(Month/Day/Year)
02/26/2008

____ Director ____X____ 10% Owner
____ Officer (give title below) ____ Other (specify below)

COSTA MESA, CA 92627

(City) (State) (Zip)

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

6. Individual or Joint/Group Filing(Check
Applicable Line)
____ Form filed by One Reporting Person
X 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 Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price
Common Stock	02/26/2008		S ⁽¹⁾		18,014	D	\$ 15.5418
Common Stock	02/27/2008		S ⁽¹⁾		14,839	D	\$ 15.2382

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

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(9-02)

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)	8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficial Owned Following Transaction (Instr. 6)
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title or Number of Shares	

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Quercus Trust 1835 NEWPORT BLVD. A109-PMB 467 COSTA MESA, CA 92627		X		
Gelbaum David 1835 NEWPORT BLVD. A109-PMB 467 COSTA MESA, CA 92627		X		Co-Trustee
Gelbaum Monica Chavez 1835 NEWPORT BLVD. A109-PMB 467 COSTA MESA, CA 92627		X		Co-Trustee

/s/ David Gelbaum, Co-Trustee, The Quercus Trust	02/28/2008
_____ **Signature of Reporting Person	Date
/s/ David Gelbaum, as attorney-in-fact for Monica Chavez Gelbaum, Co-Trustee, The Quercus Trust	02/27/2008
_____ **Signature of Reporting Person	Date

* 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) Pursuant to the "lowest in, highest out" method of calculating profit under Section 16(b), the two reported sales resulted in a short-swing profit of \$247,113.49 when matched against the Reporting Persons' purchases of 16,500 shares at a price of \$7.813 per share on

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8/28/2007, 8,200 shares at a price of \$7.8429 per share on 8/29/2007, and a portion of 20,000 shares at a price of \$8.0645 on 8/27/2007. This temporary short-swing liability was immediately remedied on the date of the filing of this Form 4 as Reporting Persons informed Issuer of their liability and returned the full amount of said profit (inclusive of transaction costs) to Issuer via its wire instructions. Therefore, Reporting Persons in effect realized no profit from the reported short-swing transactions and is in full compliance with Section 16(b).

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.