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Ascent Solar Technologies, Inc. Form 3 September 18, 2007 FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549 OMB APPROVAL OMB Number 3235-0104

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 Addr Person <u>*</u> Quercus Tru		orting	2. Date of Event Requiring Statement (Month/Day/Year) 09/13/2007		3. Issuer Name and Ticker or Trading Symbol Ascent Solar Technologies, Inc. [ASTI]					
(Last) (First)	(Middle)			4. Relationship of Reporting Person(s) to Issuer			5. If Amendment, Date Original Filed(Month/Day/Year)		
2309 SANTIA	GO DR.									
(Street)					(Check all applicable)			6. Individual or Joint/Group		
NEWPORT BEACH,, CA	92660				Director Officer (give title below	X 10% Other (specify below)		Filing(Check Applicable Line) Form filed by One Reporting Person _X_ Form filed by More than One Reporting Person		
(City) (a	State)	(Zip)		Table I - N	lon-Derivat	ive Securiti	es Be	neficially Owned		
1.Title of Security (Instr. 4)				2. Amount of Beneficially (Instr. 4)		3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nat Owne (Instr.	*		
Common Stock	C			1,123,146		D	Â			
Reminder: Report of owned directly or i	-	te line for eac	ch class of secu	irities benefici	ally SI	EC 1473 (7-02)			
	informa require	ation conta d to respo	oond to the c ined in this f nd unless the IB control nu	orm are not e form displa						
Tabl	le II - Deriv	vative Secur	ities Beneficia	lly Owned (e.	g., puts, calls,	warrants, opt	ions, c	onvertible securities)		

1. Title of Derivative Security	2. Date Exercisable and		3. Title and Amount of		4.	5.	6. Nature of Indirect
(Instr. 4)	Expiration D	ate	Securities Underlying		Conversion	Ownership	Beneficial Ownership
	(Month/Day/Year)		Derivative Security		or Exercise	Form of	(Instr. 5) /e
			(Instr. 4)		Price of	Derivative	
	Date Exercisable	Expiration Date	Title	Amount or Number of	Derivative	Security:	
			The		Security	Direct (D)	
						or Indirect	

Shares (I)

(Instr. 5)

Reporting Owners

Reporting Owner Name / Address		Relation	onships	
	Director	10% Owner	Officer	Other
Quercus Trust 2309 SANTIAGO DR. NEWPORT BEACH,, CA 92660	Â	ÂX	Â	Â
Gelbaum David 2309 SANTIAGO DR. NEWPORT BEACH,, CA 92660	Â	ÂX	Â	Co-Trustee
Gelbaum Monica Chavez 2309 SANTIAGO DR. NEWPORT BEACH,, CA 92660	Â	ÂX	Â	Co-Trustee

Signatures

/s/ David Gelbaum, Co-Trustee, The Quercus Trust		
**Signature of Reporting Person	Date	
/s/ David Gelbaum, as attorney-in-fact for Monica Chavez Gelbaum, Co-Trustee, The Quercus Trust	09/18/2007	
**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).

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.