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Form 4											
October 19, 2010									OMB AI	PPROVAL	
FORM 4 UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549								OMB Number:	3235-0287		
Check this bo if no longer subject to Section 16.		GES IN I	ES IN BENEFICIAL OWNERSHIP OF ECURITIES					January 31, 2005 average rs per			
Form 4 orresponseForm 5Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,obligationsSection 17(a) of the Public Utility Holding Company Act of 1935 or Section <i>See</i> Instruction30(h) of the Investment Company Act of 1940							0.5				
(Print or Type Resp	onses)										
			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) 09/28/2010					Director 10% Owner Officer (give title Other (specify below) SVP - Sales and Marketing			
				ndment, Date Original th/Day/Year)				 6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person 			
THORNTON, O	CO 80241								More than One Re		
(City)	(State)	(Zip)	Table	I - Non-Do	erivative S	Securi	ties Ac	quired, Disposed o	f, or Beneficial	ly Owned	
	Transaction Date Ionth/Day/Year)	Executio		3. Transactic Code (Instr. 8)	Disposed (Instr. 3,	l (A) o l of (D 4 and (A) or) 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)		
Common 09 Stock 09	9/28/2010			Code V M	2,500	(D) A	Price (<u>1</u>)	2,500	D		

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

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

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

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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. Transacti Code (Instr. 8)	Transaction of Derivative Code Securities		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	
Restricted Stock Units	<u>(1)</u>	09/28/2010		М	2,500	(2)	(2)	Common Stock	2,500	\$

Reporting Owners

Reporting Owner Name / Address	Relationships					
	Director	10% Owner	Officer	Other		
Gutierrez Rafael C/O ASCENT SOLAR TECHNOLOGIES, INC. 12300 GRANT STREET THORNTON, CO 80241			SVP - Sales and Marketing			
Signatures						

/s/ Jason Day, 10/08/2010 Attorney-in-Fact

**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).
- Each restricted stock unit represents a contingent right to receive one share of the issuer's common stock. (1)
- Twenty five percent (25%) of the restricted stock units vested on September 28, 2010 and the remaining restricted stock units vest in three (2)equal annual installments on September 28, 2011, September 28, 2012 and September 28, 2013.

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.