Patterson Gregg Form 3 January 03, 2011 FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION OMB APPROVAL Washington, D.C. 20549 OMB 3235-0104 Number: January 31, **INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF** Expires: **SECURITIES** Estimated average burden hours per

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 Addre Person <u>*</u> Patterson Gre		rting	2. Date of Event Requiring Statement (Month/Day/Year)		3. Issuer Name and Ticker or Trading Symbol ADVANCED ENERGY INDUSTRIES INC [AEIS]					
(Last) (F	First)	(Middle)	01/01/2011		4. Relationship of Reporting Person(s) to Issuer		5. If Amendment, Date Original Filed(Month/Day/Year)			
1625 SHARP P	OINT DF	RIVE						· · ·		
(S	treet)				(Check all applicable)		6. Individual or Joint/Group			
FORT COLLIN	IS, COÂ	80525			Director X Officer (give title below EVP & Gen.	Other	ow)	Filing(Check Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person		
(City) (S	State)	(Zip)		Table I - N	lon-Derivati	ive Securiti	es Bei	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				21,727 <u>(1)</u>		D	Â			
Reminder: Report o owned directly or in		e line for eac	ch class of secu	rities benefici	ally SI	EC 1473 (7-02)			
	informa required	tion conta d to respo	oond to the co ined in this fo nd unless the //B control nu	orm are not form displa	ays a					

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

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

2005

0.5

response...

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Shares

(I) (Inc

(Instr. 5)

Reporting Owners

Reporting Owner Name / Address	Relationships						
, o	Director	10% Owner	Officer	Other			
Patterson Gregg 1625 SHARP POINT DRIVE FORT COLLINS, CO 80525	Â	Â	EVP & Gen. Mgr. Renewables BU	Â			
Signatures							
/s/ Thomas O. McGimpsey (Attorney-in-Fact)		01/	03/2011				
**Signature of Reporting Person			Date				
Explanation of Responses:							

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).
- (1) Shares issued in connection with the acquisition of PV Powered Inc., as more fully set forth in the Agreement and Plan of Merger by and among Advanced Energy Industries, Inc., PV Powered, Inc., and Neptune Acquisition Sub, Inc. dated March 24, 2010.

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.