

Patterson Gregg
Form 4
February 17, 2011

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 *
Patterson Gregg

2. Issuer Name and Ticker or Trading Symbol
ADVANCED ENERGY INDUSTRIES INC [AEIS]

5. Relationship of Reporting Person(s) to Issuer
(Check all applicable)

(Last) (First) (Middle)
1625 SHARP POINT DRIVE
(Street)

3. Date of Earliest Transaction (Month/Day/Year)
02/15/2011

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
EVP & Gen. Mgr. Renewables BU

FORT COLLINS, CO 80525
(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
 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 Ownership (Instr. 4)
			Code	V	Amount (A) or Price (D)		
Common Stock	02/15/2011		A		18,595 (1) \$ 0	40,322	D
Common Stock	02/15/2011		A		3,750 (2) \$ 0	44,072 (3)	D

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
Employee Stock Options (right to buy)	\$ 14.52	02/15/2011		A	26,250 <u>(4)</u>	02/15/2012	02/15/2021	Common Stock	26,250

Reporting Owners

Reporting Owner Name / Address	Relationships
	Director 10% Owner Officer Other
Patterson Gregg 1625 SHARP POINT DRIVE FORT COLLINS, CO 80525	EVP & Gen. Mgr. Renewables BU

Signatures

/s/ Thomas O. McGimpsey
(Attorney-in-Fact) 02/17/2011

**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 employee restricted stock units granted February 15, 2011 will vest in 2 installments - 40% at the first anniversary of the grant date and the remaining 60% at the second anniversary of the grant date.
 - (2) The employee restricted stock units granted February 15, 2011 will vest in four equal installments beginning on the first anniversary of the grant date.
 - (3) Includes 22,345 restricted stock units and 21,727 shares held in street name. As of reporting date, no RSUs have vested or are sellable.
 - (4) The Employee stock options granted February 15, 2011 vest in four equal installments beginning on the one year anniversary of the grant date.

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.