

Patterson Gregg
Form 4
February 17, 2011

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 *
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
____X____ Officer (give title ____ Other (specify
below) below)
EVP & Gen. Mgr. Renewables BU

FORT COLLINS, CO 80525

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

6. Individual or Joint/Group Filing(Check
Applicable Line)
____X____ Form filed by One Reporting Person
____ Form filed by More than One Reporting
Person

(City) (State) (Zip)

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 Beneficial Ownership (Instr. 4)
Common Stock	02/15/2011		A	(A) or (D) Amount (1) 18,595	\$ 0 40,322	D	
Common Stock	02/15/2011		A	(A) or (D) Amount (2) 3,750	\$ 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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information contained in this form are not
required to respond unless the form
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(9-02)

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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 Date	Title Amount or Number of Shares
Employee Stock Options (right to buy)	\$ 14.52	02/15/2011		A	26,250 (4)	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.