FIRESTONE LAWRENCE

Form 4

October 29, 2009

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB APPROVAL OMB

3235-0287 Number:

January 31, Expires: 2005

Estimated average burden hours per

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Check this box if no longer subject to Section 16. Form 4 or

Form 5 obligations may continue. See Instruction

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

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * FIRESTONE LAWRENCE

2. Issuer Name and Ticker or Trading

Issuer

ADVANCED ENERGY **INDUSTRIES INC [AEIS]**

below)

(Check all applicable)

below)

(Last)

(Middle)

3. Date of Earliest Transaction

(Month/Day/Year)

Director 10% Owner X_ Officer (give title Other (specify

5. Relationship of Reporting Person(s) to

1625 SHARP POINT DRIVE

(Street)

(First)

10/27/2009

Symbol

Executive VP & CFO

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

(Instr. 8)

Applicable Line)

X Form filed by One Reporting Person Form filed by More than One Reporting

6. Individual or Joint/Group Filing(Check

Person

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

FORT COLLINS, CO 80525

(City) (State) (Zip) 1. Title of 2. Transaction Date 2A. Deemed Security (Month/Day/Year) Execution Date, if

3. 4. Securities TransactionAcquired (A) or Code Disposed of (D)

5. Amount of Securities Beneficially Owned Following

6. Ownership 7. Nature of Form: Direct Indirect (D) or Beneficial Indirect (I) Ownership (Instr. 4) (Instr. 4)

(A) or

Reported Transaction(s) (Instr. 3 and 4)

Code V Amount (D) Price

(1)

Common 10/27/2009 Stock

(Instr. 3)

1,875 A \$0

(Instr. 3, 4 and 5)

 $7,916^{(2)}$

D

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

(Month/Day/Year)

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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	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of orDerivative Securities Acquired (A) or Disposed of	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount Underlying Securitic (Instr. 3 and 4)	
	Security				(D) (Instr. 3, 4, and 5)				
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amou or Numl of Sh
Employee Stock Option (right to	\$ 12.77	10/27/2009		A	13,125	10/27/2010(3)	10/27/2019	Common Stock	13,1 (3)

Reporting Owners

Reporting Owner Name / Address	Relationships						
	Director	10% Owner	Officer	Other			
EIDECTONE LAWDENCE							

FIRESTONE LAWRENCE 1625 SHARP POINT DRIVE FORT COLLINS, CO 80525

Executive VP & CFO

Signatures

buy)

Thomas O. McGimpsey - Attorney-in-Fact

10/29/2009

**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 on October 27, 2009 will vest in four equal installments beginning on the first anniversary of the grant date.
- (2) Includes 7,500 restricted stock units and 416 shares acquired through the Employee Stock Purchase Plan.
- (3) The employee stock options granted on October 27, 2009 will vest in four equal annual installments beginning on the first anniversary of the grant date.
- (4) Mr. Firestone has stock options (right to buy) of 282,500 shares of Common Stock.

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.

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