Hudgens Terry Form 4 May 06, 2011

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

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OMB APPROVAL

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if no longer subject to Section 16. Form 4 or Form 5 obligations

may continue.

See Instruction

Check this box

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

2. Issuer Name and Ticker or Trading

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * **Hudgens Terry**

Symbol

5. Relationship of Reporting Person(s) to

(Check all applicable)

Issuer

ADVANCED ENERGY **INDUSTRIES INC [AEIS]**

(Last) (First) (Middle)

(Street)

(State)

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

below)

10% Owner Officer (give title Other (specify

1625 SHARP POINT DRIVE

05/04/2011

4. If Amendment, Date Original

6. Individual or Joint/Group Filing(Check

_ Director

Applicable Line)

Filed(Month/Day/Year)

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

D

Person

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

FORT COLLINS, CO 80525

(City)

2. Transaction Date 2A. Deemed 1.Title of Security (Month/Day/Year) Execution Date, if (Instr. 3) (Month/Day/Year)

(Zip)

4. Securities 3. TransactionAcquired (A) or Code Disposed of (D) (Instr. 3, 4 and 5) (Instr. 8)

5. Amount of Securities Beneficially (D) or Owned Following (Instr. 4) Reported

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

(A) or

Transaction(s) (Instr. 3 and 4)

Common 05/04/2011 Stock

Code V Amount (D) Price 8,000 \$0 A (1) (2)

43,000 (3)

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

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)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	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exer	cisable and	7. Title a	and	8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transacti	onNumber	Expiration D	ate	Amount	of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day	Year)	Underlyi	ing	Security	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative Securities			Securitie	es	(Instr. 5)	Bene
	Derivative							(Instr. 3	and 4)		Own
	Security				Acquired						Follo
					(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						
					4, and 5)						
								٨	mount		
								01			
						Date Exercisable	Expiration Date		umber		
								of			
				Code V	(A) (D)				hares		

Reporting Owners

Reporting Owner Name / Address	Relationships						
	Director	10% Owner	Officer	Other			
Hudgens Terry							
1625 SHARP POINT DRIVE	X						
FORT COLLINS, CO 80525							

Signatures

Thomas O. McGimpsey -05/06/2011 Attorney-in-Fact

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).

Date

- (1) The restricted stock units granted on May 4, 2011 will vest 100% on the first anniversary of the grant date.
- (2) Represents shares of restricted stock units.

**Signature of Reporting Person

Mr. Hudgens has received 2 grants (A) 15,000 RSUs granted May 4, 2010 which vest in four equal installments beginning on year from grant date (B) 8,000 RSUs granted May 4, 2011 which vest 100% on the first anniversary of the grant date. Mr. Hudgens also holds 20,000 shares in street name. As of this filing 3,750 RSUs have vested.

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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