

MCGIMPSEY THOMAS O  
 Form 3/A  
 October 27, 2011

**FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

OMB APPROVAL

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**INITIAL STATEMENT OF 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 *		2. Date of Event Requiring Statement	3. Issuer Name <b>and</b> Ticker or Trading Symbol	
Â MCGIMPSEY THOMAS O		(Month/Day/Year)	ADVANCED ENERGY INDUSTRIES INC [AEIS]	
(Last)	(First)	(Middle)	10/26/2011	
1625 SHARP POINT DRIVE		4. Relationship of Reporting Person(s) to Issuer		5. If Amendment, Date Original Filed(Month/Day/Year)
(Street)		(Check all applicable)		08/08/2011
FORT COLLINS,Â COÂ 80525		<input type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer <input type="checkbox"/> Other (give title below)    (specify below)		6. Individual or Joint/Group Filing(Check Applicable Line)
(City)	(State)	(Zip)	<input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person	

**Table I - Non-Derivative Securities Beneficially Owned**

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
Common Stock	8,669 <sup>(1)</sup>	D	Â

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

SEC 1473 (7-02)

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**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 Derivative Security	5. Ownership Form of Derivative Security: Direct (D) or Indirect	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable    Expiration Date	Title    Amount or Number of			

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				Shares		(I) (Instr. 5)	
Employee Stock Option (right to buy)	04/24/2010	04/24/2019	Common Stock	5,250 <sup>(2)</sup>	\$ 7.95	D	Â
Employee Stock Option (right to buy)	07/21/2010	07/21/2019	Common Stock	5,250 <sup>(2)</sup>	\$ 11.21	D	Â
Employee Stock Option (right to buy)	10/27/2010	10/27/2019	Common Stock	5,250 <sup>(2)</sup>	\$ 12.77	D	Â
Employee Stock Option (right to buy)	02/16/2011	02/16/2020	Common Stock	10,500 <sup>(2)</sup>	\$ 15.65	D	Â
Employee Stock Option (right to buy)	04/20/2011	04/20/2020	Common Stock	5,250 <sup>(2)</sup>	\$ 16.25	D	Â
Employee Stock Option (right to buy)	07/20/2011	07/20/2020	Common Stock	5,250 <sup>(2)</sup>	\$ 13.85	D	Â
Employee Stock Option (right to buy)	10/26/2011	10/26/2020	Common Stock	5,250 <sup>(2)</sup>	\$ 14.5	D	Â
Employee Stock Option (right to buy)	02/15/2012	02/15/2021	Common Stock	6,250 <sup>(2)</sup>	\$ 14.52	D	Â
Employee Stock Option (right to buy)	04/28/2012	04/28/2021	Common Stock	6,250 <sup>(2)</sup>	\$ 14.21	D	Â
Employee Stock Option (right to buy)	07/22/2012	07/22/2021	Common Stock	6,250 <sup>(2)</sup>	\$ 12.44	D	Â

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
MCGIMPSEY THOMAS O 1625 SHARP POINT DRIVE FORT COLLINS, CO 80525	Â	Â	Â	EVP Gen Counsel & Corp Sec

## Signatures

/s/ Thomas O.  
McGimpsey

10/26/2011

\*\*Signature of Reporting  
Person

Date

## 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).

Represents 8,451 shares of Restricted Stock units (RSUs) and 218 shares of Employee Stock Purchase Plan Shares. The RSUs vest in four equal annual installments beginning on the first anniversary of the grant date. Mr. McGimpsey has been granted the following: 4/24/2009 (1) 750 shares, 7/21/2009 750 shares, 10/27/2009 750 shares, 2/16/2010 1,500 shares, 4/20/2010 750 shares, 7/20/2010 750 shares, 10/26/2010 750 shares, 2/15/2011 1,000 shares, 4/28/2011 1,000 shares, and 7/22/2011 1,000 shares. As of 8/8/2011, 1,135 shares of the RSUs are sellable.

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- (2) Represents Employee Stock Options granted (right to buy). Each grant will vest in four equal installments beginning on the 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.

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