MCGIMPSEY THOMAS O Form 3/A October 27, 2011 FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549 OMB approval

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 Add Person <u>*</u> MCGIMPS		U	Statement (Month/Day/Year)		3. Issuer Name and Ticker or Trading Symbol ADVANCED ENERGY INDUSTRIES INC [AEIS]					
, ,	(First)	(Middle)	10/26/2011		4. Relationship of Reporting Person(s) to Issuer			5. If Amendment, Date Original Filed(Month/Day/Year) 08/08/2011		
1625 SHARP	POINT D	RIVE			(Check all applicable)					
((Street)				(Check an applicable)			6. Individual or Joint/Group		
FORT COLLI	NS, CC	80525			Director X Officer (give title below EVP Gen Co	Other	w)	Filing(Check Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person		
(City)	(State)	(Zip)	Tabl	le I - N	on-Derivati	ive Securiti	es Bei	neficially Owned		
1.Title of Security (Instr. 4)	7			ficially (Securities Owned	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nat Owne (Instr.	1		
Common Stoc	k		8,66	9 <u>(1)</u>		D	Â			
Reminder: Report owned directly or	-	ate line for ea	ch class of securities	beneficia	ally SI	EC 1473 (7-02)			
	oond to the collect ined in this form a nd unless the form //B control number	ays a								
Tab	ole II - Deri	ivative Secur	rities Beneficially Ov	wned (e.	g., puts, calls,	warrants, opt	ions, c	onvertible securities)		

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		Securities U	3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		on Ownership Beneficia se Form of Ownersh	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of	Derivative Security	Security: Direct (D) or Indirect	

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January 31,

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Number:

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

Reporting Owners

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

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

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.

(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. 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.