McMahon John Form 3 August 25, 2010

### FORM 3

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

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF

OMB APPROVAL

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30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting 2. Date of Event Requiring 3. Issuer Name and Ticker or Trading Symbol Person \* Statement ADVANCED ENERGY INDUSTRIES INC [AEIS] McMahon John (Month/Day/Year) 08/18/2010 (Last) (First) (Middle) 4. Relationship of Reporting 5. If Amendment, Date Original Person(s) to Issuer Filed(Month/Day/Year) **1625 SHARP POPINT DRIVE** (Check all applicable) (Street) 6. Individual or Joint/Group Filing(Check Applicable Line) Director 10% Owner \_X\_ Form filed by One Reporting \_X\_\_ Officer \_ Other Person FORT COLLINS, Â COÂ 80525 (give title below) (specify below) Form filed by More than One (see remarks) Reporting Person (City) (State) (Zip) **Table I - Non-Derivative Securities Beneficially Owned** 4. Nature of Indirect Beneficial 1. Title of Security 2. Amount of Securities Beneficially Owned Ownership (Instr. 4) Ownership (Instr. 4) Form: (Instr. 5) Direct (D) or Indirect (I) (Instr. 5) D Â Common Stock 4,689 (1) Reminder: Report on a separate line for each class of securities beneficially SEC 1473 (7-02) owned directly or indirectly. Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

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)		Securities Un	3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		5. Ownership Form of Derivative	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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				Shares		(I) (Instr. 5)	
Employee Stock Option (right to buy)	(2)	10/28/2019	Common Stock ( the underlying security)	6,250	\$ 8.95	D	Â
Employee Stock Option (right to buy)	(3)	02/19/2020	Common Stock ( the underlying security)	8,625	\$ 7.69	D	Â
Employee Stock Option (right to buy)	(4)	04/24/2020	Common Stock ( the underlying security)	11,500	\$ 7.95	D	Â
Employee Stock Option (right to buy)	(5)	07/21/2020	Common Stock ( the underlying security)	11,500	\$ 11.21	D	Â
Employee Stock Option (right to buy)	(6)	10/27/2020	Common Stock ( the underlying security)	5,250	\$ 12.77	D	Â
Employee Stock Option (right to buy)	(7)	02/16/2021	Common Stock ( the underlying security)	5,250	\$ 15.65	D	Â
Employee Stock Option (right to buy)	(8)	04/20/2021	Common Stock ( the underlying security)	5,250	\$ 16.25	D	Â
Employee Stock Option (right to buy)	(9)	07/20/2021	Common Stock ( the underlying security)	5,250	\$ 13.85	D	Â

# **Reporting Owners**

Reporting Owner Name / Address	Relationships					
•	Director	10% Owner	Officer	Other		
McMahon John 1625 SHARP POPINT DRIVE FORT COLLINS. CO 80525	Â	Â	(see remarks)	Â		

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## **Signatures**

/s/ Thomas O. McGimpsey (Attorney-in-Fact)

08/25/2010

\*\*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).
- (1) Represents 4,689 shares of Restricted Stock Units.
- (2) The option is exercisable in four equal annual installments. The first installment of 1,562 options became exercisable on October 28, 2009 and the next three installments become exercisable on October 28, 2010, October 28, 2011 and October 28, 2012.
- (3) The remaining portion of the option becomes exercisable in three equal annual installments on February 19, 2011, February 19, 2012 and February 19, 2013.
- The option is exercisable in four equal annual installments. The first installment of 2,875 options became exercisable on April 24, 2010 and the next three installments become exercisable on April 24, 2011, April 24, 2012 and April 24, 2013.
- (5) The option is exercisable in four equal annual installments. The first installment of 2,875 options became exercisable on July 21, 2010 and the next three installments become exercisable on July 21, 2011, July 21, 2012 and July 21, 2013.
- The option is exercisable in four equal annual installments which become exercisable on October 27, 2010, October 27, 2011, October 27, 2012 and October 27, 2013.
- (7) The option is exercisable in four equal annual installments which become exercisable on February 16, 2011, February 16, 2012, February 16, 2013 and February 16, 2014.
- (8) The option is exercisable in four equal annual installments which become exercisable on April 20, 2011, April 20, 2012, April 20, 2013 and April 20, 2014.
- (9) The option is exercisable in four equal annual installments which become exercisable on July 20, 2011, July 20, 2012, July 20, 2013 and July 20, 2014.

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#### **Remarks:**

Officer Title: principal financial officer, principal accounting officer, vice president and controller.

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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