ADVANCED ENERGY INDUSTRIES INC

Form SC 13G/A February 14, 2012

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

SCHEDULE

13G

(Rule 13d-102)

Information

Statement

Pursuant to

Rules 13d-1 and

13d-2

Under the

Securities

Exchange Act of

1934

(Amendment

No. 1)*

Advanced

Energy

Industries,

Inc.

(Name of Issuer)

Common

Stock, par

value \$0.001

per share

(Title of Class of

Securities)

007973100



December 31, 2011 Date of Event Which Requires Filing of the Statement

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- £ Rule 13d-1(b)
- S Rule 13d-1(c)
- £ Rule 13d-1(d)

*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in a prior cover page.

The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

Cusip No. 007973100 13GPage 2 of 10 Pages

NAME OF REPORTING PERSON

S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON

Citadel Advisors LLC

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP

2. (a) £

(b) £

SEC USE ONLY

3.

4.

1.

CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

SOLE VOTING POWER

5.

NUMBER OF 0

SHARES

SHARED VOTING POWER

BENEFICIALLY

OWNED BY 6.

1,985,724 shares

EACH

REPORTING

PERSON 7. SOLE DISPOSITIVE POWER

WITH

8. SHARED DISPOSITIVE POWER

See Row 6 above.

AGGREGATE AMOUNT
BENEFICIALLY OWNED BY EACH
REPORTING PERSON

See Row 6 above.

0

CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES

CERTAIN SHARES £

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11.

9.

4.6%1

TYPE OF REPORTING PERSON

12.

IA; OO; HC

The percentages reported in this Schedule 13G/A are based upon 43,660,364 shares of Common Stock outstanding as of October 31, 2011 (according to the Form 10-Q filed by the issuer on November 8, 2011).

Cusip No. 007973100 13GPage 3 of 10 Pages

NAME OF REPORTING PERSON

S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON

Citadel Holdings II LP

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP

2. (a) £

(b) £

SEC USE ONLY

3.

4.

1.

CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

SOLE VOTING POWER

5.

NUMBER OF 0

SHARES

6. SHARED VOTING POWER

BENEFICIALLY

OWNED BY

1,985,724 shares

EACH

	Edgar Filing: ADVANCED ENERGY INDUSTRIES INC - Form SC 13G/
REPORTING	
PERSON	
WITH	SOLE DISPOSITIVE POWER 7. 0
	8. SHARED DISPOSITIVE POWER
	See Row 6 above.
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
	See Row 6 above.
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES £
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
	4.6%

TYPE OF REPORTING PERSON

PN; HC

12.

Cusip No. 007973100 13GPage 4 of 10 Pages

NAME OF REPORTING PERSON

S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP

Citadel Investment Group II, L.L.C.

2. (a) £

(b) £

SEC USE ONLY

3.

4.

1.

CITIZENSHIP OR PLACE OF **ORGANIZATION**

Delaware

SOLE VOTING POWER

5.

NUMBER OF

SHARES

6. SHARED VOTING POWER

BENEFICIALLY

OWNED BY

Edgar Filing: ADVANCED ENERGY INDUSTRIES INC - Form SC 13G/A **EACH** 2,000,962 shares **REPORTING PERSON** SOLE DISPOSITIVE POWER WITH 7. 0 8. SHARED DISPOSITIVE POWER See Row 6 above. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH 9. REPORTING PERSON See Row 6 above. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES 10. CERTAIN SHARES £ PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 11.

4.6%

OO; HC

12.

TYPE OF REPORTING PERSON

Cusip No. 007973100 13GPage 5 of 10 Pages

NAME OF REPORTING PERSON

S.S. OR I.R.S. IDENTIFICATION NO.

OF ABOVE PERSON 1.

Kenneth Griffin

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP

2. (a) £

(b) £

SEC USE ONLY

3.

4.

CITIZENSHIP OR PLACE OF **ORGANIZATION**

U.S. Citizen

SOLE VOTING POWER

5.

NUMBER OF

SHARES

SHARED VOTING POWER

BENEFICIALLY

OWNED BY

2,000,962 shares

EACH

REPORTING	
PERSON	SOLE DIS

SPOSITIVE POWER

WITH 0

8. SHARED DISPOSITIVE POWER

See Row 6 above.

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

See Row 6 above.

CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES 10.

CERTAIN SHARES £

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11.

9.

4.6%

TYPE OF REPORTING PERSON

12. IN; HC Cusip No. 007973100 13GPage 6 of 10 Pages

Item 1(a) Name of Issuer
Advanced Energy Industries, Inc.

Item 1(b) Address of Issuer's Principal Executive Offices
1625 Sharp Point Drive, Fort Collins, Colorado 80525

Name of Person Filing

This Schedule 13G/A is being jointly filed by Citadel Advisors LLC ("Citadel Advisors"), Citadel Holdings II LP ("CH-II"), Citadel Investment Group II, L.L.C. ("CIG-II") and Mr. Kenneth Griffin (collectively with Citadel

Item Advisors, CH-II and CIG-II, the "Reporting Persons") with respect to shares of Common Stock of the

2(a) above-named issuer (and/or options to purchase such shares) owned by Citadel Global Equities Master Fund Ltd., a Cayman Islands limited company ("CG"), Citadel Derivatives Trading, Ltd., a Cayman Islands limited company ("CDT"), certain segregated accounts and Citadel Securities LLC, a Delaware limited liability company ("Citadel Securities").

Citadel Advisors is the portfolio manager for CG and CDT, and the investment manager for certain segregated accounts. CH-II is the managing member of Citadel Advisors. Citadel Holdings I LP, a Delaware limited partnership ("CH-I"), is the non-member manager of Citadel Securities. CIG-II is the general partner of CH-I and CH-II. Mr. Griffin is the President and Chief Executive Officer of, and owns a controlling interest in, CIG-II.

The filing of this statement shall not be construed as an admission that any of the Reporting Persons is the beneficial owner of any securities covered by the statement other than the securities actually owned by such person (if any).

Address of Principal Business Office Item

The address of the principal business office of each of the Reporting Persons is c/o Citadel LLC, 131 S. **2(b)** Dearborn Street, 32nd Floor, Chicago, Illinois 60603.

Citizenship

Item Each of Citadel Advisors and CIG-II is organized as a limited liability company under the laws of the State of

Delaware. CH-II is organized as a limited partnership under the laws of the State of Delaware. Mr. Griffin is a U.S. citizen.

Item 2(d) Title of Class of Securities
Common Stock, \$0.001 par value

Item 2(e) CUSIP Number 007973100

Item 3 If this statement is filed pursuant to Rules 13d-1(b), or 13d-2(b) or (c), check whether the person filing is

(a) [__] Broker or dealer registered under Section 15 of the Exchange Act;

Cusip No. 007973100 13GPage 7 of 1	0 Pages
(b) [_] Bank as defined in Section 3	(a)(6) of the Exchange Act;
(c) [_] Insurance company as define	ed in Section 3(a)(19) of the Exchange Act;
(d) [_] Investment company register	red under Section 8 of the Investment Company Act;
(e) [] An investment adviser in acc	ordance with Rule 13d-1(b)(1)(ii)(E);
(f) [_] An employee benefit plan or	endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F);
(g) [_] A parent holding company of	r control person in accordance with Rule 13d-1(b)(1)(ii)(G);
(h) [_] A savings association as defi	ned in Section 3(b) of the Federal Deposit Insurance Act;
(i) [] A church plan that is exclude Investment Company Act;	d from the definition of an investment company under Section 3(c)(14) of the
(j) [] Group, in accordance with Ru	ıle 13d-1(b)(1)(ii)(J).
If filing as a non-U.S. institution in acc	cordance with Rule 13d-1(b)(1)(ii)(J), please specify the type of institution:
Item 4 Ownership	
A. Citadel Advisors LLC	
(b) The number of shares Citadel Advis Common Stock outstanding.	y be deemed to beneficially own 1,985,724 shares of Common Stock. sors may be deemed to beneficially own constitutes approximately 4.6% of the
(c)	Number of shares as to which such person has:
(i)	sole power to vote or to direct the vote: 0
(ii)	shared power to vote or to direct the vote: 1,985,724
(iii)	sole power to dispose or to direct the disposition of: 0
(iv) sha	red power to dispose or to direct the disposition of: 1,985,724

Cusip No. 007973100 13GPage 8 of 10 Pages

(iii)

(iv) shared power to dispose or to direct the disposition of: 2,000,962

B. Citadel Holdings II	LP
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CH-II may be deemed to beneficially own 1,985,724 shares of Common Stock. (a) The number of shares CH-II may be deemed to beneficially own constitutes approximately 4.6% of the (b) Common Stock outstanding. Number of shares as to which such person has: (c) (i) sole power to vote or to direct the vote: 0 shared power to vote or to direct the vote: 1,985,724 (ii) sole power to dispose or to direct the disposition of: 0 (iii) shared power to dispose or to direct the disposition of: 1,985,724 (iv) C. Citadel Investment Group II, L.L.C. CIG-II may be deemed to beneficially own 2,000,962 shares of Common Stock. (b) The number of shares CIG-II may be deemed to beneficially own constitutes approximately 4.6% of the Common Stock outstanding. Number of shares as to which such person has: (c) (i) sole power to vote or to direct the vote: 0 shared power to vote or to direct the vote: 2,000,962 (ii) (iii) sole power to dispose or to direct the disposition of: 0 shared power to dispose or to direct the disposition of: 2,000,962 (iv) D. Kenneth Griffin Mr. Griffin may be deemed to beneficially own 2,000,962 shares of Common Stock. (a) The number of shares Mr. Griffin may be deemed to beneficially own constitutes approximately 4.6% of the Common Stock outstanding. Number of shares as to which such person has: (c) sole power to vote or to direct the vote: 0 (i) shared power to vote or to direct the vote: 2,000,962 (ii)

sole power to dispose or to direct the disposition of: 0

13

Cusip No. 007973100 13GPage 9 of 10 Pages

Ownership of Five Percent or Less of a Class

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than 5 percent of the class of securities, check the following S.

Item 6 Ownership of More than Five Percent on Behalf of Another Person Not Applicable

Item Identification and Classification of the Subsidiary which Acquired the Security Being Reported on by the
 Parent Holding Company

See Item 2 above

Item 8 Identification and Classification of Members of the Group
Not Applicable

Item 9

Notice of Dissolution of Group

Not Applicable

Certification

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

Cusip No.	007973100	13GPage	$10 \mathrm{o}$	of 10 Pages	S

After reasonable inquiry and to the best of its knowledge and belief, the undersigned certify that the information set forth in this statement is true, complete and correct.

Dated this 14th day of February, 2012.

CITADEL ADVISORS LLC

By: Citadel Holdings II LP, CITADEL HOLDINGS II LP

By: Citadel Investment Group II, L.L.C.,

its General Partner

By: Citadel Investment Group II, L.L.C.,

its General Partner

its Managing Member

By: /s/ John C. Nagel

John C. Nagel, Authorized Signatory

By: /s/ John C. Nagel

John C. Nagel, Authorized Signatory

CITADEL INVESTMENT GROUP II, L.L.C.

KENNETH GRIFFIN

By: /s/ John C. Nagel

By: /s/ John C. Nagel, attorney-in-fact*

John C. Nagel, Authorized Signatory

15

John C. Nagel is signing on behalf of Kenneth Griffin as attorney-in-fact pursuant to a power of attorney previously *filed with the Securities and Exchange Commission on February 24, 2006, and hereby incorporated by reference herein. The power of attorney was filed as an attachment to a filing by Citadel Limited Partnership on Schedule 13G for Morgans Hotel Group Co.