ADVANCED ENERGY INDUSTRIES INC Form SC 13G/A February 12, 2009

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

> > SCHEDULE 13G

Under the Securities Exchange Act of 1934 (Amendment No. 1)*

NAME OF ISSUER: Advanced Energy Industries, Inc.

TITLE OF CLASS OF SECURITIES: Common

CUSIP NUMBER: 007973100

DATE OF EVENT WHICH REQUIRES FILLNG OF THIS STATEMENT: December 31, 2008

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

[X]	Rule	13d-1(b)
[]	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 the disclosures provided in a prior cover page.

The information required in 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

- (1) Names of Reporting Persons The Bank of New York Mellon Corporation IRS Identification Nos. Of Above Person IRS No. 13-2614959
- (2) Check the Appropriate Box if a Member of a Group (See Instructions) (a) () (b) ()
- (3) SEC use only

Citizenship or Place of Organization New York (4) Number of Shares (5) Sole Voting Power 423,658 Beneficially (6) Shared Voting Power Owned by Each 0 Reporting Person (7) Sole Dispositive Power With 450,277 (8) Shared Dispositive Power 0 Aggregate Amount Beneficially Owned (9) by Each Reporting Person 450,277

(10)	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (see Instructions)	()
(11)	Percent of Class Represented by Amount in Row (9)	1.07	olo
(12)	Type of Reporting Person (See Instructions)	Н	С

SCHEDULE 13G

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, CO 80525 Item 2(a) Name of Person Filing: The Bank of New York Mellon Corporation and any other reporting person(s) identified on the second part of the cover page(s) and Exhibit I. Item 2(b) Address of Principal Business Office, or if None, Residence: c/o The Bank of New York Mellon Corporation One Wall Street, 31st Floor New York, New York 10286 (for all reporting persons) Item 2(c) Citizenship: See cover page and Exhibit I. Item 2(d) Title of Class of Securities: Common Item 2(e) CUSIP Number: 007973100 Item 3 See Item 12 of cover page(s) ("Type of Reporting Person") for each reporting person. Symbol Category ΒD Broker or Dealer registered under Section 15 of the = Securities Exchange Act of 1934 Bank as defined in Section 3(a)(6) of the Securities ΒK = Exchange Act of 1934 ΤV Investment Company registered under Section 8 of the = Investment Company Act of 1940 Investment Advisor registered under Section 203 of the ΙA = Investment Advisors Act of 1940 ΕP Employee Benefit Plan, Pension Fund which is subject to the provisions of the Employee Retirement Income Security Act of 1974 or Endowment Fund; see Section 240.13-d(1)(b)(1)(ii)(F) HC = Parent Holding Company, in accordance with Section 240.13-d(1)(b)(1)(ii)(G) Item 4 Ownership: See Item 5 through 9 and 11 of cover page(s) as to each reporting person.

The amount beneficially owned includes, where appropriate, securities not outstanding which are subject to options, warrants, rights or conversion privileges that are exercisable within 60 days. The securities reported herein as beneficially owned may exclude securities of the issuer with respect to which voting and/or dispositive power is exercised by subsidiaries of The Bank of New York Mellon Corporation, or departments or units thereof, independently from the exercise of those powers over the securities reported herein. See SEC Release No. 34-39538 (January 12, 1998). The filing of this Schedule 13G shall not be construed as an admission that The Bank of New York Mellon Corporation, or its direct or indirect subsidiaries, including The Bank of New York and Mellon Bank, N.A., are for the purposes of Section 13(d) or 13(g) of the Act, the beneficial owners of any securities covered by this Schedule 13G.

The following information applies if checked: () Mellon Bank, N.A. and/or () The Bank of New York Trust Company is/are the trustee of the issuer's employee benefit plan (the "Plan"), which is subject to ERISA. The securities reported include all shares held of record by such reporting person(s) as trustee of the Plan which have not been allocated to the individual accounts of employee participants in the Plan. The reporting person, however, disclaims beneficial ownership of all shares that have been allocated to the individual accounts of employee participants in the Plan for which directions have been received and followed.

Item 5 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 five percent of the class of securities, check the following (${\rm X}$)

Item 6 Ownership of More than Five Percent on Behalf of Another Person:

All of the securities are beneficially owned by The Bank of New York Mellon Corporation and its direct or indirect subsidiaries in their various fiduciary capacities. As a result, another entity in every instance is entitled to dividends or proceeds of sale. The number of individual accounts holding an interest of 5% or more is ()

- Item 7 Identification and Classification of the Subsidiary Which Acquired the Security Being Reported by the Parent Holding Company: See Exhibit I.
- Item 8 Identification and Classification of Members of the Group: N/A

Item 9 Notice of Dissolution of Group:

Item 10 Certification:

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

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct. This filing is signed by The Bank of New York N/A

Mellon Corporation on behalf of all reporting entities pursuant to Rule 13d-1(k)(1) promulgated under the Securities and Exchange Act of 1934, as amended.

Date: February 12, 2009

THE BANK OF NEW YORK MELLON CORPORATION

By: /s/ DAVID BELSTERLING

David Belsterling First Vice President Attorney-In-Fact for The Bank of New York Mellon Corporation

EXHIBIT I

The shares reported on the attached Schedule 13G are beneficially owned by the following direct or indirect subsidiaries of The Bank of New York Mellon Corporation, as marked (X):

- (A) The Item 3 classification of each of the subsidiaries listed below is"Item 3(b) Bank as defined in Section 3(a)(6) of the Act (15 U.S.C. 78c)"
 - (X) The Bank of New York Mellon
 - () The Bank of New York Mellon Trust Company, National Association
 - (X) BNY Mellon, National Association
 - () BNY Mellon Trust of Delaware
- (B) The Item 3 classification of each of the subsidiaries listed below is "Item 3(e) An Investment Adviser in accordance with Section 240.13d-1 (b)(1)(ii)(E)"
 - () The Boston Company Asset Management LLC
 - (X) The Dreyfus Corporation (parent holding company of MBSC Securities Corporation)
 - () Founders Asset Management LLC
 - () Franklin Portfolio Associates LLC
 - () Lockwood Advisors, Inc.
 - () Lockwood Capital Management, Inc.
 - () MBSC Securities Corporation (parent holding company of Founders Asset Management LLC)
 - (X) Mellon Capital Management Corporation
 - () Mellon Global Investments Limited
 - () Newton Capital Management Limited
 - () Newton Investment Management Limited
 - () Standish Mellon Asset Management Company LLC
 - () Urdang Securities Management, Inc.
 - () Walter Scott & Partners Limited
- (C) The Item 3 classification of each of the subsidiaries listed below is "Item 3(g) A Parent Holding Company or control person in accordance with Section 240.13d-1(b)(1)(ii)(G)"
 - (X) The Bank of New York Mellon Corporation
 - () B.N.Y. Holdings (Delaware) Corporation (parent holding company of BNY Mellon Trust of Delaware)
 - () BNY Separate Account Services, Inc. (parent holding company of Lockwood Advisors, Inc.; Lockwood Capital Management, Inc.)
 - () MAM (MA) Holding Trust (parent holding company of Franklin Portfolio

Associates LLC; Standish Mellon Asset Management Company LLC; The Boston Company Asset Management LLC)

- MBC Investments Corporation (parent holding company of Mellon (X) Capital Management Corporation; Neptune LLC)
- () Mellon International Holding S.AR.L (parent holding company of Mellon International Limited)
- Mellon International Limited (parent holding company of Newton Management () Limited; Walter Scott & Partners Limited)
- () Neptune LLC (parent holding company of Mellon International Holding S.AR.L)
- () Newton Management Limited (parent holding company of Newton Capital Management Limited; Newton Investment Management Limited)
- () Pershing Group LLC (parent holding company of BNY Separate Account Services, Inc.)

NOTE: ALL OF THE LEGAL ENTITIES LISTED UNDER (A) AND (B) ABOVE ARE DIRECT OR INDIRECT SUBSIDIARIES OF THE BANK OF NEW YORK MELLON CORPORATION. BENEFICIAL OWNERSHIP OF MORE THAN FIVE PERCENT OF THE CLASS BY ANY ONE OF THE SUBSIDIARIES OR INTERMEDIATE PARENT HOLDING COMPANIES LISTED ABOVE IS REPORTED ON A JOINT REPORTING PERSON PAGE FOR THAT SUBSIDIARY ON THE ATTACHED SCHEDULE 13G AND IS INCORPORATED IN THE TOTAL PERCENT OF CLASS REPORTED ON THE BANK OF NEW YORK MELLON CORPORATION'S REPORTING PERSON PAGE. (DO NOT ADD THE SHARES OR PERCENT OF CLASS REPORTED ON EACH JOINT REPORTING PERSON PAGE ON THE ATTACHED SCHEDULE 13G TO DETERMINE THE TOTAL PERCENT OF CLASS FOR THE BANK OF NEW YORK MELLON CORPORATION).

POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS that each of the undersigned (each a 'Company') does hereby make, constitute and appoint each of David M. Belsterling and Andrew M. Kresl (and any other employee of The Bank of New York Mellon Corporation, or one of its affiliates, designated in writing by one of the attorneys-in-fact), acting individually, its true and lawful attorney, to execute and deliver in its name and on its behalf, whether the Company is acting individually or as representative of others, any and all filings required to be made by the Company under the Securities Exchange Act of 1934, as amended (the 'Exchange Act'), with respect to securities which may be deemed to be beneficially owned by the Company or under the Company's investment discretion under the Exchange Act, giving and granting unto each said attorney-in-fact power and authority to act in the premises as fully and to all intents and purposes as the Company might or could do if personally present by one of its authorized signatories, hereby ratifying and confirming all that said attorney-in-fact shall lawfully do or cause to be done by virtue hereof.

THIS POWER OF ATTORNEY shall remain in full force and effect until either revoked in writing by a Company or until such time as the person or persons to whom power of attorney has been hereby granted cease(s) to be an employee of The Bank of New York Mellon Corporation or one of its affiliates.

THIS POWER OF ATTORNEY may be executed in any number of counterparts all of which taken together shall constitute one and the same instrument.

IN WITNESS WHEREOF, each Company hereby executes this Power of Attorney effective as of the date set forth below.

By: /s/ Ronald P. O'Hanley	By: /s/ Bruce W. Van Saun
CORPORATION	
THE BANK OF NEW YORK MELLON	THE BANK OF NEW YORK

Ronald P. O'Hanley Bruce W. Van Saun Vice Chairman & Chief Financial Vice Chairman Officer Date: August 1, 2007 Date: August 1, 2007 By: /s/ John Dowd _____ John Dowd Executive Vice President Date: August 1, 2007 THE BANK OF NEW YORK TRUST BNY SEPARATE ACCOUNT SERVICES, INC. COMPANY, N.A. By: /s/ Michael K. Klugman By: /s/ Lisa Detwiler _____ _____ Michael K. Klugman Lisa Detwiler Managing Counsel / Asst. Secretary President Date: August 1, 2007 Date: August 27, 2007 By: /s/ Thomas J. Mastro _____ Thomas J. Mastro Executive Vice President Date: August 1, 2007 THE BOSTON COMPANY ASSET THE BOSTON COMPANY HOLDING LLC MANAGEMENT, LLC By: /s/ Corey A. Griffin By: /s/ James P. Palermo _____ _____ Corey A. Griffin James P. Palermo Chairman & Chief Executive Officer President Date: December 19, 2007 Date: August 1, 2007 THE DREYFUS CORPORATION FOUNDERS ASSET MANAGEMENT LLC By: /s/ J. David Officer By: /s/ David L. Ray _____ _____ J. David Officer David L. Ray Director & Chief Operating Officer Senior Vice President & Date: August 1, 2007 Chief Operating Officer Date: December 18, 2007 LOCKWOOD ADVISORS, INC. FRANKLIN PORTFOLIO ASSOCIATES LLC By: /s/ John S. Cone By: /s/ Lisa Detwiler _____ _____ John S. Cone Lisa Detwiler President & Chief Executive Officer Managing Counsel / Asst. Secretary Date: August 1, 2007 Date: August 7, 2008 LOCKWOOD CAPITAL MANAGEMENT, INC. By: /s/ Lisa Detwiler _____ Lisa Detwiler Managing Counsel / Asst. Secretary Date: August 27, 2007 MAM (DE) TRUST MAM (MA) HOLDING TRUST

By: /s/ Michael A. Bryson _____ Michael A. Bryson, Trustee Date: August 1, 2007 By: /s/ Ronald P. O'Hanley _____ Ronald P. O'Hanley, Trustee Date: August 1, 2007 By: /s/ Scott E. Wennerholm Scott E. Wennerholm, TrusteeScott E. Wennerholm, TrusteeDecember 20, 2007Date: December 20, 2007 _____ Date: December 20, 2007 By: Mellon Trust of Delaware, N.A., Trustee By: /s/ David B. Kutch _____ David B. Kutch President and CEO Date: August 1, 2007 MBC INVESTMENTS CORPORATION By: /s/ Robert A. Repetto _____ Robert A. Repetto Vice President Date: August 1, 2007 MELLON BANK, N.A. By: /s/ Ronald P. O'Hanley _____ Ronald P. O'Hanley Vice Chairman Date: August 1, 2007 MELLON GLOBAL INVESTMENTS LIMITED By: /s/ _____ Jonathan M. Little Director Date: MELLON INTERNATIONAL LIMITED By: /s/ Helena L. Morrissey _____ Helena L. Morrissey Director Date: April 15, 2008 MELLON TRUST OF CALIFORNIA By: /s/ David R. Holst By: /s/ David B. Kutch

By: /s/ Michael A. Bryson _____ Michael A. Bryson, Trustee Date: August 1, 2007 By: /s/ Ronald P. O'Hanley _____ Ronald P. O'Hanley, Trustee Date: August 1, 2007 By: /s/ Scott E. Wennerholm _____ MBSC SECURITIES CORPORATION By: /s/ J. David Officer _____ J. David Officer President and Director Date: August 1, 2007 MELLON CAPITAL MANAGEMENT CORPORATION By: /s/ Gabriela Parcella _____ Gabriela Parcella Executive Vice President & Chief Operating Officer Date: August 1, 2007 MELLON INTERNATIONAL HOLDING S.AR.L. By: /s/ Robert A. Repetto _____ Robert A. Repetto Manager Date: August 1, 2007 MELLON PRIVATE TRUST COMPANY, N.A. By: /s/ Lawrence Hughes _____ Lawrence Hughes President & Chief Executive Officer Date: August 1, 2007 MELLON TRUST OF DELAWARE, N.A.

_____ _____ David R. Holst David B. Kutch President President & Chief Executive Date: August 1, 2007 Officer Date: August 1, 2007 MELLON TRUST OF NEW ENGLAND, N.A. MELLON TRUST OF NEW YORK, LLC By: /s/ James P. Palermo By: /s/ Lawrence Hughes _____ _____ James P. Palermo Lawrence Hughes President President Date: August 1, 2007 Date: August 1, 2007 MELLON TRUST OF WASHINGTON By: /s/ David R. Holst _____ David R. Holst Chairman & Chief Executive Officer Date: August 1, 2007 NEPTUNE LLC NEWTON CAPITAL MANAGEMENT LIMITED By: /s/ Ronald P. O'Hanley By: /s/ Helena L. Morrissey _____ _____ Ronald P. O'Hanley Helena L. Morrissey President & Chief Executive Officer Director & Chief Executive Date: August 1, 2007 Officer Date: April 15, 2008 NEWTON INVESTMENT MANAGEMENT LIMITED NEWTON MANAGEMENT LIMITED By: /s/ Helena L. Morrissey By: /s/ Helena L. Morrissey _____ _____ Helena L. Morrissey Helena L. Morrissey Director Director Date: April 15, 2008 Date: April 15, 2008 PERSHING GROUP LLC STANDISH MELLON ASSET MANAGEMENT COMPANY LLC By: /s/ James D. MacIntyre By: /s/Dennis Wallestad _____ _____ Dennis Wallestad James D. MacIntyre Chief Financial Officer President & Chief Operating Officer Date: September 11, 2008 Date: August 1, 2007 URDANG SECURITIES MANAGEMENT, INC. WALTER SCOTT & PARTNERS LIMITED By: /s/ Richard J. Ferst By: /s/ Kenneth J. Lyall _____ _____ Richard J. Ferst Kenneth J. Lyall President & Chief Operating Officer Chairman Date: August 1, 2007 Date: December 24, 2007

JOINT FILING AGREEMENT

In accordance with Rule 13d-1(k)(1) under the Securities Exchange Act of 1934,

as amended (the 'Exchange Act'), each undersigned entity (each a 'Company') hereby agrees to any and all joint filings required to be made on the Company's behalf on Schedule 13G (including amendments thereto) under the Exchange Act, with respect to securities which may be deemed to be beneficially owned by the Company under the Exchange Act, and that this Agreement be included as an Exhibit to any such joint filing. This Agreement may be executed in any number of counterparts all of which taken together shall constitute one and the same instrument.

IN WITNESS WHEREOF, each Company hereby executes this Agreement effective as of the date set forth below.

THE BANK OF NEW YORK MELLON THE BANK OF NEW YORK CORPORATION By: /s/ Ronald P. O'Hanley By: /s/ Bruce W. Van Saun _____ _____ Ronald P. O'Hanley Bruce W. Van Saun Vice Chairman & Chief Financial Vice Chairman Date: August 1, 2007 Officer Date: August 1, 2007 THE BANK OF NEW YORK TRUST BNY SEPARATE ACCOUNT SERVICES, INC. COMPANY, N.A. By: /s/ Michael K. Klugman By: /s/ Lisa Detwiler /s/ Michael K. _____ Lisa Detwiler President Managing Counsel / Asst. Secretary Date: August 1, 2007 Date: August 27, 2007 THE BOSTON COMPANY ASSET THE BOSTON COMPANY HOLDING LLC MANAGEMENT, LLC By: /s/ Corey A. Griffin By: /s/ James P. Palermo _____ _____ Corey A. Griffin James P. Palermo Chairman & Chief Executive Officer President Date: December 19, 2007 Date: August 1, 2007 THE DREYFUS CORPORATION FOUNDERS ASSET MANAGEMENT LLC By: /s/ J. David Officer By: /s/ David L. Ray _____ _____ J. David Officer David L. Ray Director & Chief Operating Officer Senior Vice President & Chief Operating Officer Date: August 1, 2007 Date: December 18, 2007 FRANKLIN PORTFOLIO ASSOCIATES LLC LOCKWOOD ADVISORS, INC. By: /s/ John S. Cone By: /s/ Lisa Detwiler _____ _____ John S. Cone Lisa Detwiler President & Chief Executive Officer Managing Counsel / Asst. Secretary Date: August 1, 2007 Date: August 7, 2008 LOCKWOOD CAPITAL MANAGEMENT, INC. By: /s/ Lisa Detwiler

Lisa Detwiler

Managing Counsel / Asst. Secretary Date: August 27, 2007

MAM (DE) TRUST

By: /s/ Michael A. Bryson _____ Michael A. Bryson, Trustee Date: August 1, 2007

By: /s/ Ronald P. O'Hanley _____ Date: August 1, 2007

By: /s/ Scott E. Wennerholm _____ Date: December 20, 2007

By: Mellon Trust of Delaware, N.A., Trustee

By: /s/ David B. Kutch _____ David B. Kutch, President and CEO Date: August 1, 2007

MBC INVESTMENTS CORPORATION

By: /s/ Robert A. Repetto _____ Robert A. Repetto Vice President Date: August 1, 2007

MELLON BANK, N.A.

By: /s/ Ronald P. O'Hanley _____ Ronald P. O'Hanley Vice Chairman Date: August 1, 2007

MELLON GLOBAL INVESTMENTS LIMITED By: /s/ _____ Jonathan M. Little Director Date: MELLON INTERNATIONAL LIMITED By: /s/ Helena L. Morrissey _____ Helena L. Morrissey Director

Date: April 15, 2008

MAM (MA) HOLDING TRUST

By: /s/ Michael A. Bryson _____ Michael A. Bryson, Trustee

Date: August 1, 2007

By: /s/ Ronald P. O'Hanley _____ Ronald P. O'Hanley, TrusteeRonald P. O'Hanley, Trusteea: August 1, 2007Date: August 1, 2007

By: /s/ Scott E. Wennerholm _____ Scott E. Wennerholm, TrusteeScott E. Wennerholm, Trusteee: December 20, 2007Date: December 20, 2007

> MBSC SECURITIES CORPORATION By: /s/ J. David Officer _____ J. David Officer President and Director Date: August 1, 2007 MELLON CAPITAL MANAGEMENT CORPORATION By: /s/ Gabriela Parcella _____ Gabriela Parcella Executive Vice President & Chief Operating Officer Date: August 1, 2007 MELLON INTERNATIONAL HOLDING S.AR.L. By: /s/ Robert A. Repetto _____ Robert A. Repetto Manager Date: August 1, 2007 MELLON PRIVATE TRUST COMPANY, N.A. By: /s/ Lawrence Hughes _____

Lawrence Hughes President & Chief Executive Officer

Date: August 1, 2007 MELLON TRUST OF CALIFORNIA MELLON TRUST OF DELAWARE, N.A. By: /s/ David R. Holst By: /s/ David B. Kutch _____ _____ David R. Holst David B. Kutch President & Chief Executive President Date: August 1, 2007 Officer Date: August 1, 2007 MELLON TRUST OF NEW ENGLAND, N.A. MELLON TRUST OF NEW YORK, LLC By: /s/ James P. Palermo By: /s/ Lawrence Hughes _____ _____ James P. Palermo Lawrence Hughes President President Date: August 1, 2007 Date: August 1, 2007 MELLON TRUST OF WASHINGTON By: /s/ David R. Holst _____ David R. Holst Chairman & Chief Executive Officer Date: August 1, 2007 NEPTUNE LLC NEWTON CAPITAL MANAGEMENT LIMITED By: /s/ Ronald P. O'Hanley By: /s/ Helena L. Morrissey _____ _____ Ronald P. O'Hanley Helena L. Morrissev President & Chief Executive Officer Director & Chief Executive Date: August 1, 2007 Officer Date: April 15, 2008 NEWTON INVESTMENT MANAGEMENT LIMITED NEWTON MANAGEMENT LIMITED By: /s/ Helena L. Morrissey By: /s/ Helena L. Morrissey -----_____ Helena L. Morrissey Helena L. Morrissey Director Director Date: April 15, 2008 Date: April 15, 2008 PERSHING GROUP LLC STANDISH MELLON ASSET MANAGEMENT COMPANY LLC By: /s/ Dennis Wallestad By: /s/ James D. MacIntyre _____ _____ Dennis Wallestad James D. MacIntyre Chief Financial Officer President & Chief Operating Date: September 11, 2008 Officer Date: August 1, 2007 URDANG SECURITIES MANAGEMENT, INC. WALTER SCOTT & PARTNERS LIMITED By: /s/ Kenneth J. Lyall By: /s/ Richard J. Ferst _____ _____ Richard J. Ferst Kenneth J. Lyall President & Chief Operating Officer Chairman Date: August 1, 2007 Date: December 24, 2007