

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13G

Under the Securities Exchange Act of 1934

Amendment #1

Name of  
Issuer: MINERALS TECH INC

Title of Class  
of Securities: Common Stock

CUSIP Number: 603158106

1) NAME OF I.R.S. IDENTIFICATION NO. OF REPORTING PERSON

The Prudential Insurance Company of America 22-1211670

2.) MEMBER OF A GROUP: (a) N/A

(b) N/A

3) SEC USE ONLY:

4) PLACE OF ORGANIZATION: A mutual insurance company organized  
under the laws of the State of New Jersey

NUMBER OF SHARES BENEFICIALLY OWNED BY REPORTING PERSON WITH:

|                              |         |               |
|------------------------------|---------|---------------|
| 5) Sole Voting Power:        | 269,900 | See Exhibit A |
| 6) Shared Voting Power:      | 467,330 | See Exhibit A |
| 7) Sole Dispositive Power:   | 269,900 | See Exhibit A |
| 8) Shared Dispositive Power: | 585,330 | See Exhibit A |

9) AGGREGATE AMOUNT BENEFICIALLY OWNED:  
855,230 See Exhibit A

10) AGGREGATE AMOUNT IN ROW (9) EXCLUDES SHARES: Not Applicable

11) PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9):  
3.78 See Exhibit A

12) TYPE OF REPORTING PERSON: IC, IA

ITEM 1(a). NAME OF ISSUER:

MINERALS TECH INC

ITEM 1(b). ADDRESS OF ISSUER'S EXECUTIVE OFFICES:

MINERALS TECH INC  
405 Lexington Avenue  
19th Floor  
New York, NY 10174

ITEM 2(a). NAME OF PERSON FILING:

The Prudential Insurance Company of America

ITEM 2(b). ADDRESS OF PRINCIPAL BUSINESS OFFICE:

751 Broad Street  
Newark, New Jersey 07102-3777

ITEM 2(c). CITIZENSHIP:

A mutual insurance company organized under the  
laws of  
the State of New Jersey

ITEM 2(d). TITLE OF CLASS OF SECURITIES:

Common Stock

ITEM 2(e). CUSIP NUMBER:

603158106

ITEM 3. The Person filing this statement is an Insurance Company as defined in Section 3(a) (19) of the Securities Exchange Act of 1934, and an Investment Adviser registered under Section 203 of the Investment Advisers Act of 1940.

ITEM 4. OWNERSHIP:

(a) Number of Shares Beneficially Owned: 855,230 See Exhibit A

(b) Percent of Class: 3.78

(c) Powers Number Of Shares

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Sole power to vote or to direct the vote 269,900 See Exhibit A

Shared power to vote or to direct the vote 467,330 See Exhibit A

Sole power to dispose or to direct disposition 269,900 See Exhibit A

Shared power to dispose or to direct disposition 585,330 See Exhibit A

ITEM 5. OWNERSHIP OF 5% OR LESS OF A CLASS:

Prudential has ceased to be the owner of more than 5% of the outstanding Common Stock of this issuer.

ITEM 6. OWNERSHIP OF MORE THAN 5% ON BEHALF OF ANOTHER PERSON:

Not Applicable

ITEM 7. IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH ACQUIRED THE SECURITY BEING REPORTED ON BY THE ULTIMATE PARENT COMPANY:

Not Applicable

ITEM 8. IDENTIFICATION AND CLASSIFICATION OF MEMBERS OF THE GROUP:

Not Applicable

ITEM 9. NOTICE OF DISSOLUTION OF GROUP:

Not Applicable

ITEM 10. CERTIFICATION:

By signing below, the Prudential Insurance Company of America certifies that, to the best of its knowledge and belief, the securities referred to above were acquired in the ordinary course of business and were not acquired 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 in connection with or as a participant in any transaction having such purpose or effect.

The filing of this statement should not be construed as an admission that Prudential is, for purposes of Sections 13 or 16 of the Securities Exchange Act of 1934, the beneficial owner of such shares.

SIGNATURE

After reasonable inquiry and to the best of its knowledge and belief, The Prudential Insurance Company of America certifies that the information set forth in this statement is true, complete and correct.

THE PRUDENTIAL INSURANCE COMPANY OF AMERICA

By: Richard S. Biegen  
Director, Securities Law Compliance

Date: 01/28/97  
As of: 12/31/96

Exhibit A  
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ITEM 6. OWNERSHIP:

The Prudential Insurance Company of America ('Prudential') may have direct or indirect voting and/or investment discretion over 855,230 shares of the Issuer's common stock which are held for the benefit of its clients by its separate accounts, externally managed accounts, registered investment companies, subsidiaries and/or other affiliates. Prudential is reporting the combined holdings of these entities for the purpose of administrative convenience.

These shares were acquired in the ordinary course of business, and not with the purpose or effect of changing or influencing control of the Issuer. The filing of this statement should not be construed as an admission that Prudential is, for the purposes of Section 13 or 16 of the Securities Exchange Act of 1934, the beneficial owner of these shares.