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

SCHEDULE 13G

UNDER THE SECURITIES EXCHANGE ACT OF 1934 ANNUAL FILING

MINERALS TECHNOLOGY
(NAME OF ISSUER)
COMMON STOCK
(TITLE CLASS OF SECURITIES)
603158106
(CUSIP NUMBER)
L2/31/2002
DATE OF EVENT WHICH REQUIRES FILING OF THIS STATEMENT

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).

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- NAME OF REPORTING PERSON
 S.S. OR I.R.S. IDENTIFICATION NO. OF PERSON
 STATE STREET BANK AND TRUST COMPANY, ACTING IN VARIOUS FIDUCIARY
 CAPACITIES. 04-1867445
- 2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP.*

NOT APPLICABLE A ___

- 3. SEC USE ONLY
- 4. CITIZENSHIP OR PLACE OF ORGANIZATION

BOSTON, MASSACHUSETTS

- 5. SOLE VOTING POWER
- 435,246 SHARES
- 6. SHARED VOTING POWER

639,287 SHARES

- 7. SOLE DISPOSITIVE POWER
- 1,113,028 SHARES
- 8. SHARED DISPOSITIVE POWER
- 0 SHARES
- 9. AGGREGATED AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,113,028 SHARES
- 10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*

NOT APPLICABLE

- 11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 5.5%
- 12. TYPE OF REPORTING PERSON*

ВК

ITEM 1.

(A) NAME OF ISSUER

MINERALS TECHNOLOGIES INC

(B) ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES

405 LEXINGTON AVENUE 19TH FLOOR NEW YORK, NY 10174

ITEM 2.

- (A) NAME OF PERSON FILING STATE STREET BANK AND TRUST COMPANY, TRUSTEE
- (B) ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE

225 FRANKLIN STREET, BOSTON, MA 02110

(C) CITIZENSHIP

BOSTON, MASSACHUSETTS

(D) TITLE OF CLASS OF SECURITIES

COMMON STOCK

(E) CUSIP NUMBER

603158106

- ITEM 3. IF THIS STATEMENT IS FILED PURSUANT TO RULE 13D-1(B), OR 13D-2(B), CHECK WHETHER THE PERSON FILING IS A:
 - (B) _X_ BANK AS DEFINED IN SECTION 3(A)(6) OF THE ACT

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ITEM 4. OWNERSHIP

- (A) AMOUNT BENEFICIALLY OWNED 1,113,028 SHARES
- (B) PERCENT OF CLASS 5.5%
- (C) NUMBER OF SHARES AS TO WHICH SUCH PERSON HAS:
 - (I) SOLE POWER TO VOTE OR TO DIRECT THE VOTE OF 435,246 SHARES
- (II) SHARED POWER TO VOTE OR TO DIRECT THE VOTE OF 639,287 SHARES
- SOLE POWER TO DISPOSE OR TO DIRECT THE DISPOSITION OF (III) 1,113,028 SHARES
- (IV) SHARED POWER TO DISPOSE OR TO DIRECT THE DISPOSITION OF 0 SHARES
- OWNERSHIP OF FIVE PERCENT OR LESS OF A CLASS ITEM 5.

NOT APPLICABLE

OWNERSHIP OF MORE THAN FIVE PERCENT ON BEHALF OF ANOTHER ITEM 6. PFRSON.

NOT APPLICABLE

IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH ACQUIRED THE SECURITY BEING REPORTED ON BY THE PARENT HOLDING COMPANY

NOT APPLICABLE

ITEM 8. IDENTIFICATION AND CLASSIFICATION OF MEMBERS OF THE GROUP

NOT APPLICABLE

NOT APPLICABLE

SCHEDULE 13G

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ITEM 10. CERTIFICATION

THE FOLLOWING CERTIFICATION SHALL BE INCLUDED IF THE STATEMENT IS FILED PURSUANT TO RULE 13D-1(B):

BY SIGNING BELOW I CERTIFY THAT, TO THE BEST OF MY 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 PURPOSES OR EFFECT.

THIS REPORT IS NOT AN ADMISSION THAT STATE STREET BANK AND TRUST COMPANY IS THE BENEFICIAL OWNER OF ANY SECURITIES COVERED BY THIS REPORT, AND STATE STREET BANK AND TRUST COMPANY EXPRESSLY DISCLAIMS BENEFICIAL OWNERSHIP OF ALL SHARES REPORTED HEREIN PURSUANT TO RULE 13D-4.

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.

10 FEBRUARY 2003

STATE STREET CORPORATION STATE STREET BANK AND TRUST COMPANY, TRUSTEE

/S/ SUSAN C. DANIELS VICE PRESIDENT