

SCHEDULE 13G

5.	SOLE VOTING POWER	
	484,569 SHARES	
6.	SHARED VOTING POWER	
	657,435 SHARES	
7.	SOLE DISPOSITIVE POWER	
	1,182,499 SHARES	
8.	SHARED DISPOSITIVE POWER	
	0 SHARES	
9.	AGGREGATED AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	1,182,499 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
5.9%

12. TYPE OF REPORTING PERSON*

BK

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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

1,182,499 SHARES

(B) PERCENT OF CLASS

5.9%

(C) NUMBER OF SHARES AS TO WHICH SUCH PERSON HAS:

(I) SOLE POWER TO VOTE OR TO DIRECT THE VOTE OF

- 484,569 SHARES
(II) SHARED POWER TO VOTE OR TO DIRECT THE VOTE OF
657,435 SHARES
(III) SOLE POWER TO DISPOSE OR TO DIRECT THE DISPOSITION OF
1,182,499 SHARES
(IV) SHARED POWER TO DISPOSE OR TO DIRECT THE DISPOSITION OF
0 SHARES

ITEM 5. OWNERSHIP OF FIVE PERCENT OR LESS OF A CLASS

NOT APPLICABLE

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

NOT APPLICABLE

ITEM 7. 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

ITEM 9. NOTICE OF DISSOLUTION OF GROUP

NOT APPLICABLE

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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.

5 FEBRUARY 2004

STATE STREET CORPORATION
STATE STREET BANK AND TRUST COMPANY,
TRUSTEE

/S/ SUSAN C. DANIELS
VICE PRESIDENT

