



- NOT APPLICABLE  
11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9  
7.9%  
12. TYPE OF REPORTING PERSON\*  
BK

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- ITEM 1.  
(A) NAME OF ISSUER  
MINNESOTA MINING & MANUFACTURING CO.  
  
(B) ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES  
3M CENTER  
ST. PAUL, MN 55144-144

- 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 CLASS OF SECURITIES  
COMMON  
  
(E) CUSIP NUMBER  
88579Y101

- 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)  BANK AS DEFINED IN SECTION 3(A)(6) OF THE ACT

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- ITEM 4. OWNERSHIP  
(A) AMOUNT BENEFICIALLY OWNED  
61,768,328 SHARES  
(B) PERCENT OF CLASS  
7.9%  
(C) NUMBER OF SHARES AS TO WHICH SUCH PERSON HAS:  
(I) SOLE POWER TO VOTE OR TO DIRECT THE VOTE OF  
25,210,001 SHARES  
(II) SHARED POWER TO VOTE OR TO DIRECT THE VOTE  
34,411,337 SHARES  
(III) SOLE POWER TO DISPOSE OR TO DIRECT THE DISPOSITION OF  
52,931,230 SHARES  
(IV) SHARED POWER TO DISPOSE OR TO DIRECT THE DISPOSITION OF  
8,837,098 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