SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

SCHEDULE 13G (Rule 13d-102)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO RULES 13d-1(b),(c), AND (d) AND AMENDMENTS THERETO FILED PURSUANT TO RULE 13d-2(b) (Amendment No. 3)1

Minerals T	Technologies Inc.
(Name	of Issuer)
Com	mmon Stock
(Title of Cla	ass of Securities)
60	93158106
(CUSI	IP Number)
12	2/31/2004
(Date of Event Which Requ	uires Filing of this Statement)
Check the appropriate box to designat is filed:	te the rule pursuant to which this Schedule
[X] Rule 13d-1(b) [_] Rule 13d-1(c) [_] Rule 13d-1(d)	
initial filing on this form with respe	all be filled out for a reporting person's ect to the subject class of securities, aining information which would alter the page.
Act of 1934 (the "Act") or otherwise s	nder of this cover page shall not be of Section 18 of the Securities Exchange subject to the liabilities of that section ll other provisions of the Act (however,
(Continued on	n following pages)
Page 1	1 of 7 Pages
CUSIP No. 603158106 Schedul	le 13G Page 2 of 7 Pages
1. NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF Wellington Management Company 04-2683227	ABOVE PERSONS (ENTITIES ONLY) y, LLP
2. CHECK THE APPROPRIATE BOX IF	(a) [_] (b) [_]
3. SEC USE ONLY	
4. CITIZENSHIP OR PLACE OF ORGAN Massachusetts	NIZATION
5. SOLE VOTING NUMBER OF 0 SHARES	
BENEFICIALLY 6. SHARED VOTIN	NG POWER

OWNED BY	′		569,100
EACH REPORTING PERSON	NG	7.	SOLE DISPOTIVE POWER 0
WITH	8	8.	SHARED DISPOTIVE POWER 906,400
9.	AGGREGATE A	MOUNT	BENEFICIALLY OWNED BY EACH REPORTING PERSON
10.	CHECK BOX IF AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*		
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 4.470%		
12.	TYPE OF REPORTING PERSON HC,IA		

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Item 1(a). Name of Issuer:

Minerals Technologies Inc.

Item 1(b). Address of Issuer's Principal Executive Offices:

The Chrysler Building, 405 Lexington Avenue New York, NY 10174-1901

Item 2(a). Name of Person Filing:

Wellington Management Company, LLP(''WMC'')

Item 2(b). Address of Principal Business Office or, if None, Residence:

75 State St Boston, MA 02109

Item 2(c). Citizenship:

Massachusetts

Item 2(d). Title of Class of Securities:

Common Stock

Item 2(e). CUSIP Number:

603158106

- Item 3. If This Statement is Filed Pursuant to Rule 13d-1(b), or 13d-2(b) or (c), Check Whether the Person Filing is a:
 - (a) [] Broker or dealer registered under Section 15 of the Act.
 - (b) [] Bank as defined in Section 3(a)(6) of the Act.
 - (c) [] Insurance Company as defined in Section 3(a)(19) of the Act.

- (d) [] Investment Company registered under Section 8 of the Investment Company Act.
- (e) [X] An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E);
- (f) [] An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F);
- (g) [X] A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G); see item 7;
- [] A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act;
- (i) [] A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act;
- (j) [] Group, in accordance with Rule 13d-1(b)(1)(ii)(J).

If this statement is filed pursuant to Rule 13d-1(c), check this box []

Item 4. Ownership.

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

- (a) Amount Beneficially Owned: WMC, in its capacity as investment adviser, may be deemed to beneficially own 916,100 shares of the Issuer which are held of record by clients of WMC.
- (b) Percent of Class: 4.470%
- (c) Number of shares as to which such person has:
 - sole power to vote or to direct the vote 0 (i)
 - shared power to vote or to direct the (ii) 569,100 vote
 - (iii) sole power to dispose or to direct the disposition of
 - shared power to dispose or to direct the (iv)

disposition of

906,400

0

Item 5. Ownership of Five Percent or Less of 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

[X]

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

The securities as to which this Schedule is filed by WMC, in its capacity as investment adviser, are owned of record by clients of WMC. Those clients have the right to receive, or the power to direct the receipt of, dividends from, or the proceeds from the sale of, such securities. No such client is known to have such right or power with respect to more than five percent of this class of securities, except as follows:

Not Applicable

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company.

See Exhibit A

Item 8. Identification and Classification of Members of the Group.

Not Applicable. This schedule is not being filed pursuant to Rule 13d-1(b)(1)(ii)(J) or Rule 13d-1(d).

Item 9. Notice of Dissolution of Group.

Not Applicable

Item 10. Certification.

(a) 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 and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the

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effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection withor as a participant in any transaction having that 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.

By: --//Julie A. Jenkins//--

Name: Julie A. Jenkins Title: Vice President Date: February 14, 2005

 $^{**}\mbox{Signed}$ pursuant to a Power of Attorney dated March 3, 2004 and filed with the SEC on March 10, 2004.

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Exhibit A

Pursuant to the instructions in Item 7 of this Schedule 13G, the identity and the Item 3 classification of the relevant subsidiary are: Wellington Trust Company, NA, 75 State Street, Boston MA 02109, a wholly-owned subsidiary of Wellington Management Company, LLP and a bank as defined in Section 3(a)(6) of the Securities Exchange Act of 1934.