Northgate Minerals CORP Form SC 13G/A February 13, 2008

# 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)
	Northgate Minerals Corporation
	(Name of Issuer)
	Common Shares
	(Title of Class of Securities)
	666416102
	(CUSIP Number)
	December 31, 2007
	(Date of Event which Requires Filing of this Statement)
*The init for disc The to b 1934	the appropriate box to designate the rule pursuant to which this Schedule filed:   X  Rule 13d-1(b)  -  Rule 13d-1(c)  -  Rule 13d-1(d)  remainder of this cover page shall be filled out for a reporting person's ial filing on this form with respect to the subject class of securities, and any subsequent amendment containing information which would alter closures provided in a prior cover page.  information required on the remainder of this cover page shall not be deemed be "filed" for the purpose of Section 18 of the Securities Exchange Act of ("Act") or otherwise subject to the liabilities of that section of the Act shall be subject to all other provisions of the Act (however, see the ss).
CUSI	P No. 666416102 13G Page 2 of 8 Pages
1.	NAMES OR REPORTING PERSONS S.S. OR I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS
	Renaissance Technologies LLC 26-0385758
2.	CHECK APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS):  (a)  _   (b)  _

3.	. SEC USE ONLY						
4.	 CITIZENS	 HIP OR	PLACE OF ORGANIZATION				
	Delaware						
		5.	SOLE VOTING POWER				
			13,570,600				
	BER OF	6.	SHARED VOTING POWER				
	FICIALLY ED BY		0				
E.		7.	SOLE DISPOSITIVE POWER				
PEI			15,039,400				
W		8.	SHARED DISPOSITIVE POWER				
			0				
9.	AGGREGAT	E AMOUI	T BENEFICIALLY OWNED BY EACH REPORTING PER	RSON			
	15,039,400						
10.	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)					_	
11.	PERCENT	OF CLAS	SS REPRESENTED BY AMOUNT IN ROW (9)				
	5.93%						
12.	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)						
	IA						
			Page 2 of 8 Pages				
CUSIP	No. 6664	====== 16102		 Page 3	of 8	 Pages	
1.	NAMES OR REPORTING PERSONS S.S. OR I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS						
	James H. Simons						
2.	CHECK APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS):  (a)  _   (b)  _						
3.	SEC USE ONLY						

4. CITIZENSHIP OR PLACE OF ORGANIZATION

	Unite	ed States					
		5.	SOLE VOTING POWER				
SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON			13,570,600				
		 6.	SHARED VOTING POWER				
		7.	SOLE DISPOSITIVE POWER				
		j	15,039,400				
V	WITH	8.	SHARED DISPOSITIVE POWER				
			0				
9.	AGGRE	EGATE AMO	UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	15,039,400						
10.		HECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES SEE INSTRUCTIONS)  _					
11.	PERCE	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	5.93%						
12.	TYPE	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)					
IN							
			Page 3 of 8 Pages				
=====	======	 566416102	======================================				
=====	======	=======					
Item	1.						
	(a)	Name of	Issuer.				
		Northgat	te Minerals Corporation				
	(b)	Address	of Issuer's Principal Executive Offices.				
			nby Street, Suite 406 er, B.C., Canada V6Z 2E6				
Item	2.						
	(a)	Name of	Person Filing.				
			hedule 13G is being filed by Renaissance Technologies LLC and James H. Simons ("Simons").				

(b) Address of Principal Business Office or, if none, Residence.

The principal business address of the reporting persons is:

800 Third Avenue New York, New York 10022

(c) Citizenship.

Dr. Simons is a United States citizen and RTC is a Delaware limited liability company

(d) Title of Class of Securities.

Common Shares

(e) CUSIP Number.

666416102

#### Page 4 of 8 Pages

- (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| Investment Adviser in accordance with Sec. 240.13d-1(b)(1)(ii)(E).
- (f)  $\mid$  Employee Benefit Plan or Endowment Fund in accordance with Sec. 240.13d1(b)(1)(ii)(F).
- (g) |\_| Parent holding company, in accordance with Sec. 240.13d-1(b)(ii)(G).
- (h)  $\mid$  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 of 1940.
- (j)  $|\_|$  Group, in accordance with Sec. 240.13d-1(b)(1)(ii)(J).

If this statement is filed pursuant to Sec. 240.13d-1(c), check this box  $\mid \_ \mid$  .

#### Item 4. Ownership

(a) Amount Beneficially Owned.

RTC: 15,039,400 shares

Simons: 15,039,400 shares, comprising the shares beneficially owned by RTC, because of Dr. Simons' position as control person of RTC.

- (b) Percent of Class. RTC: 5.93% Simons: 5.93%
- (c) Number of shares as to which each such person has

(i) sole power to vote or to direct the vote: RTC: 13,570,600

Simons: 13,570,600

(ii) shared power to vote or to direct the vote: 0

(iii) sole power to dispose or to direct the disposition of:

RTC: 15,039,400

Simons: 15,039,400

(iv) shared power to dispose or to direct the
 disposition of:

0

Page 5 of 8 Pages

Item 5. Ownership of Five Percent or Less of a 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  $\| \cdot \|$ 

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

Certain funds and accounts managed by RTC have the right to receive dividends and proceeds from the sale of the securities which are the subject of this report.

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

Not applicable.

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

Not applicable.

Item 9. Notice of Dissolution of Group.

Not applicable.

Page 6 of 8 Pages

Item 10. Certification.

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or 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.

Date: February 12, 2008

/s/ James H. Simons \_\_\_\_\_ James H. Simons

Renaissance Technologies LLC

By: /s/ Mark Silber

Mark Silber

Executive Vice President

Attention: Intentional misstatements or omissions of fact constitute Federal criminal violations (see 18 U.S.C. 1001).

Page 7 of 8 Pages

SCHEDULE 13G

EXHIBIT INDEX

EXHIBIT NO. EXHIBIT \_\_\_\_\_ \_\_\_\_\_

> 99.1 Agreement Pursuant to Rule 13d-1(k)(1)(iii) (incorporated by reference to Exhibit 99.1 to the initial filing of this Schedule 13G on February 12, 2007).

> > Page 8 of 8 Pages