Northgate Minerals CORP Form SC 13G February 12, 2007

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)

	PURSUANT TO RULE 13d-2 (b)				
	Northgate Minerals Corporation				
	(Name of Issuer)				
	Common Shares				
	(Title of Class of Securities)				
	666416102				
	(CUSIP Number)				
	November 9, 2006				
	(Date of Event which Requires Filing of this Statement)				
Check is fi	the appropriate box to designate the rule pursuant to which this Schedule led: X Rule 13d-1(b) _ Rule 13d-1(c) _ Rule 13d-1(d)				
initia for a	remainder of this cover page shall be filled out for a reporting person's al filing on this form with respect to the subject class of securities, and ny subsequent amendment containing information which would alter osures provided in a prior cover page.				
to be 1934	nformation required on the remainder of this cover page shall not be deemed "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 hall be subject to all other provisions of the Act (however, see the).				
CUSIP	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 Corp. 13-3127734				
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				
			14,516,600				
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON		6.	SHARED VOTING POWER				
			0				
		7.	SOLE DISPOSITIVE POWER				
			14,516,600				
W	ITH	8.	SHARED DISPOSITIVE POWER				
			0				
9.	AGGREGAT	E AMOII	T BENEFICIALLY OWNED BY EACH	REPORTING PERSON			
•	14,516,600						
10.			GREGATE AMOUNT IN ROW (9) EX	CIIDEC CEDTAIN CUADEC			
10.	(SEE INS			_			
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)						
	5.72%						
12.	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)						
	IA						
			Page 2 of 8 Pages				
CUSIP	No. 6664	16102	13G	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.	 CITIZENS	HIP OR	PLACE OF ORGANIZATION				
	United S	tates					

		5.	SOLE VOTING POWER				
			14,516,600				
		6.	SHARED VOTING POWER				
BENE		ıΥ					
E <i>P</i>	ED BY ACH		SOLE DISPOSITIVE POWER				
REPORTING PERSON WITH			14,516,600				
			SHARED DISPOSITIVE POWER				
			0				
9.	AGGREG	GATE AMOU	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	14,516	,600					
10.		IF THE A					
11.	PERCEN	T OF CLA	SS REPRESENTED BY AMOUNT IN ROW (9)				
	5.72%						
12. TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)							
	IN						
			Page 3 of 8 Pages				
CUSIP	No. 66	6416102	13G Page 4 of 8 Pages				
Item 1	L.						
	(a)	Name of	Issuer.				
		Northgat	e Minerals Corporation				
	(b)	Address	of Issuer's Principal Executive Offices.				
			by Street, Suite 406 r, B.C., Canada V6Z 2E6				
Item 2	2.						
	(a)	Name of	Person Filing.				
			edule 13G is being filed by Renaissance Technologies Corp. and James H. Simons ("Simons").				
	(b)	Address	of Principal Business Office or, if none, Residence.				
		The prin	cipal business address of the reporting persons is:				
		800 Thir	d Avenue				

New York, New York 10022

(c) Citizenship.

Dr. Simons is a United States citizen and RTC is a Delaware corporation

(d) Title of Class of Securities.

Common Shares

(e) CUSIP Number.

666416102

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- (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) \mid 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) $|_|$ 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 $|_{-}|$.

Item 4. Ownership

(a) Amount Beneficially Owned.

RTC: 14,516,600 shares

Simons: 14,516,600 shares, comprising the shares beneficially owned by RTC, because of Dr. Simons' position as control person of RTC.

- (b) Percent of Class. RTC: 5.72% Simons: 5.72%
- (c) Number of shares as to which each such person has
 - (i) sole power to vote or to direct the vote: RTC: 14,516,600 Simons: 14,516,600
 - (ii) shared power to vote or to direct the vote:

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

RTC: 14,516,600 Simons: 14,516,600

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

0

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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 $\mid _ \mid$

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.

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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, ${\tt I}$ certify that the information set forth in this statement is true, complete and correct.

Date: February 12, 2007

/s/ James H. Simons

James H. Simons

Renaissance Technologies Corp.

By: /s/ Mark Silber

Mark Silber Vice President

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

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