GENETIC TECHNOLOGIES LTD Form SC 13G February 14, 2018

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

SCHEDULE 13G

Under the Securities Exchange Act of 1934

	GENETIC TECHNOLO	GIES LIMITED
	(Name of Issuer)	
American Deposit	ary Shares each represen	ting 150 Ordinary Shares
(Title	of Class of Securities)	
	37185R208	
	(CUSIP Number) January 2, 2017	
(Date of Event W	Which Requires Filing of	
Check the appropriate box to des Schedule is filed:	signate the rule pursuant	to which this
[X] Rule 13d-1(b)		
[_] Rule 13d-1(c)		
[_] Rule 13d-1(d)		
*The remainder of this cover paginitial filing on this form wit and for any subsequent amendmenthe disclosures provided in a page 1.	th respect to the subject at containing information	class of securities,
The information required in the deemed to be "filed" for the pur Act of 1934 ("Act") or otherwise of the Act but shall be subject see the Notes).	rpose of Section 18 of the subject to the liabilit	e Securities Exchange ies of that section
	120	
CUSIP NO. 37185R208	13G 	Page 2 of 8 Page.
(1) NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS		ties only).
Renaissance Technologies I	LLC 26-0385758	
(2) CHECK THE APPROPRIATE BOX I	IF A MEMBER OF A GROUP (S	EE INSTRUCTIONS):

	(b) [_]			
(3)	SEC USE ONLY			
(4)	CITIZENSHIP OR PLACE OF O	RGANIZATION		
NUMBER OF SHARES BENEFICIALLY OWNED			(5)	SOLE VOTING POWER 984,580
BY EACH REPORTING PERSON WITH:		(6)	SHARED VOTING POWER 0	
		(7)	SOLE DISPOSITIVE POWER 984,580	
		(8)	SHARED DISPOSITIVE POWER	
(9)	AGGREGATE AMOUNT BENEFIC	IALLY OWNED BY EAC	H REI	PORTING PERSON
(10)	CHECK BOX IF THE AGGREGA (SEE INSTRUCTIONS)	TE AMOUNT IN ROW (9) EX	KCLUDES CERTAIN SHARES
(11)	PERCENT OF CLASS REPRES	ENTED BY AMOUNT IN	ROW	(9)
(12)	TYPE OF REPORTING PERSON	(SEE INSTRUCTIONS)	
		Page 2 of 8 pag		
		Page 3 of 8 pag	es	
	IP NO. 37185R208	13G		Page 3 of 8 Page
(1)	NAMES OF REPORTING PERSO	NS.		
	RENAISSANCE TECHNOLOGIES	HOLDINGS CORPORAT	ION	13-3127734
(2)	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) [_] (b) [_]			
(3)	SEC USE ONLY			

(4) CITIZENSHIP OR PLACE OF ORGANIZATI	LON
Delaware	
	(5) SOLE VOTING POWER
NUMBER OF SHARES BENEFICIALLY OWNED	984,580
BY EACH REPORTING PERSON WITH:	(6) SHARED VOTING POWER
	0
	(7) SOLE DISPOSITIVE POWER
	984,580
	(8) SHARED DISPOSITIVE POWER
	0
(9) AGGREGATE AMOUNT BENEFICIALLY OWN	NED BY EACH REPORTING PERSON
984,580	
(10) CHECK BOX IF THE AGGREGATE AMOUNT (SEE INSTRUCTIONS) [_]	I IN ROW (9) EXCLUDES CERTAIN SHARES
(11) PERCENT OF CLASS REPRESENTED BY	AMOUNT IN ROW (9)
6.06 %	
(12) TYPE OF REPORTING PERSON (SEE INS	STRUCTIONS)
Page 3	3 of 8 pages
CUSIP NO. 37185R208	13G Page 4 of 8 Page
Item 1.	
(a) Name of Issuer	
GENETIC TECHNOLOGIES LIMITED	
(b) Address of Issuer's Principal	Executive Offices.
60-66 Hanover Street, Fitzroy	, Victoria, 3065, Australia
Item 2.	
(a) Name of Person Filing:	
	iled by Renaissance Technologies LLC nologies Holdings Corporation ("RTHC").

(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.

RTC is a Delaware limited liability company, and RTHC is a Delaware corporation.

(d) Title of Class of Securities.

American Depositary Shares each representing 150 Ordinary Shares

(e) CUSIP Number.

37185R208

Page 4 of 8 pages

- Item 3. If this statement is filed pursuant to Rule 13d-1 (b) or 13-d-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] Investment Adviser in accordance with Sec.240.13d-1(b)(1)(ii)(E).
- (f) [_] Employee Benefit Plan or Endowment Fund in accordance with Sec. 240.13d-1 (b) (1) (ii) (F).
- (g) [_] Parent holding company, in accordance with Sec.240.13d-1(b)(1)(ii)(G).
- (h) $[_]$ A savings associations 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).

Item 4. Ownership.

(a) Amount beneficially owned.

RTC: 984,580 shares

RTHC: 984,580 shares, comprising the shares beneficially owned by RTHC, because of RTHC's majority ownership of RTC.

(b) Percent of Class.

RTC: 6.06 % RTHC: 6.06 %

- (c) Number of shares as to which the person has:
 - (i) sole power to vote or to direct the vote:

RTC: 984,580 RTHC: 984,580

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

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

RTC: 984,580 RTHC: 984,580

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

RTC: 0 RTHC: 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: [_]

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.

Not applicable

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

Not applicable

Item 9. Notice of Dissolution of a 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 acquired and are held in the ordinary course of business and 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 13, 2018

Renaissance Technologies LLC

By: /s/ Mark Silber
Executive Vice President

Renaissance Technologies Holdings Corporation

By: /s/ Mark Silber
Vice President

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

Page 7 of 8 Pages

EXHIBIT 99.1

AGREEMENT REGARDING JOINT FILING

UNDER RULE 13D-1(K) OF THE EXCHANGE ACT

In accordance with Rule 13d-1(k) under the Securities Exchange Act of 1934, as amended, each of the undersigned agrees to the filing on behalf of each of a Statement on Schedule 13G, and all amendments thereto, with respect to the American Depositary Shares each representing 150 Ordinary Shares of GENETIC TECHNOLOGIES LIMITED.

Date: February 13, 2018

Renaissance Technologies LLC

By: /s/ Mark Silber
Executive Vice President

Renaissance Technologies Holdings Corporation

By: /s/ Mark Silber Vice President

Page 8 of 8 Pages