

GENETIC TECHNOLOGIES LTD  
Form 6-K  
September 30, 2010

**FORM 6-K**  
**U.S. SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

**REPORT OF FOREIGN PRIVATE ISSUER**  
**PURSUANT TO RULE 13a-16 OR 15d-16 UNDER THE**  
**SECURITIES EXCHANGE ACT OF 1934**

dated September 30, 2010

Commission File Number 0-51504

**GENETIC TECHNOLOGIES LIMITED**

(Exact Name as Specified in its Charter)

N/A

(Translation of Registrant's Name)

**60-66 Hanover Street**

**Fitzroy**

**Victoria 3065 Australia**

(Address of principal executive offices)

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Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F.

Form 20-F

Form 40-F

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1):

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7):

Indicate by check mark whether by furnishing the information contained in this Form, the registrant is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934.

Yes

No

If  Yes is marked, indicate below the file number assigned to the registrant in connection with Rule 12g3-2(b): Not applicable.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused the Report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: September 30, 2010

GENETIC TECHNOLOGIES LIMITED

|     |                   |                         |
|-----|-------------------|-------------------------|
| By: | /s/ Thomas Howitt |                         |
|     | Name:             | Thomas Howitt           |
|     | Title:            | Chief Financial Officer |

EXHIBIT INDEX

| <b>Exhibit</b> | <b>Description of Exhibit</b>  |
|----------------|--------------------------------|
| 99.1           | Financial Report, 30 June 2010 |