

TOTAL SA  
Form 6-K  
October 23, 2008

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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington D.C. 20549  
FORM 6-K  
REPORT OF FOREIGN PRIVATE ISSUER PURSUANT TO RULE 13-a16 OR 15-d16 UNDER  
THE SECURITIES EXCHANGE ACT OF 1934**

**For the month of: October 2008  
Commission File Number: 1-10888**

**TOTAL S.A.**

(Translation of registrant's name into English)  
2 place Jean Millier  
92078 Courbevoie La Défense 6  
France

(Address of principal executive offices)

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):

**Note:** Regulation S-T Rule 101(b)(1) only permits the submission in paper of a Form 6-K if submitted solely to provide an attached annual report to security holders.

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):

**Note:** Regulation S-T Rule 101(b)(7) only permits the submission in paper of a Form 6-K if submitted to furnish a report or other document that the registrant foreign private issuer must furnish and make public under the laws of the jurisdiction in which the registrant is incorporated, domiciled or legally organized (the registrant's home country), or under the rules of the home country exchange on which the registrant's securities are traded, as long as the report or other document is not a press release, is not required to be and has not been distributed to the registrant's security holders, and, if discussing a material event, has already been the subject of a Form 6-K submission or other Commission filing on EDGAR.

Indicate by check mark whether the registrant by furnishing the information contained in this Form 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): 82-\_\_\_\_.

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SIGNATURES

EXHIBIT INDEX

EX-99.1: Share Repurchase, 3rd Quarter 2008

EX-99.2: Research and Development: Total and ADEME

EX-99.3: Yemen: Total and KNOC

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**SIGNATURES**

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

**TOTAL S.A.**

Date: October 23, 2008

By: /s/ Charles Paris de Bollardière  
Name : Charles PARIS de  
BOLLARDIERE  
Title : Treasurer

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***EXHIBIT INDEX***

- Ø **EXHIBIT 99.1:** Notice of Repurchase of Ordinary Shares of Total for the 3rd quarter 2008 (October 14, 2008).
- Ø **EXHIBIT 99.2:** Research and Development: ADEME and Total Sign Memorandum of Understanding to Enhance the Energy Efficiency of Industrial Processes (October 15, 2008).
- Ø **EXHIBIT 99.3:** Yemen: Total farms into an onshore block with KNOC (October 17, 2008).