

FORM 6-K
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

Report of Foreign Private Issuer

**Pursuant to Rule 13a-16 or 15d-16
of the Securities Exchange Act of 1934**

For the month of August 2010
Commission File Number 1-31318

Gold Fields Limited

(Translation of registrant's name into English)

150 Helen Rd.
Sandown, Sandton 2196
South Africa

(Address of principal executive offices)

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

Form 20-F...x... 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 ..x...

If "Yes" is marked, indicate below the file number assigned to the registrant in connection with Rule 12g3-2(b): 82- _____

Gold Fields Limited
(Reg. No. 1968/004880/06)
(Incorporated in the Republic of South Africa)
("Gold Fields" or "the Company")

JSE, NYSE, DIFX Share Code: GFI
ISIN Code: ZAE000018123

DEALING IN SECURITIES BY DIRECTORS

In compliance with paragraphs 3.63 - 3.74 of the Listings Requirements of JSE Limited ("the Listings Requirements") we hereby advise that Messrs MD Fleischer and PA Schmidt, directors of major subsidiaries and Gold Fields Limited respectively, have sold their shares (Performance Vesting Restricted Shares ("PVRs")) which were awarded to them in terms of *The Gold Fields Limited 2005 Share Plan, as amended*.

Details of the transactions are set out below:

	MD Fleischer
Nature of transaction	On market sale of shares
Transaction Date	13 August 2010
Number of Shares	2986
Class of Security	Ordinary shares
Price per Share	R103.09
Total Value	R307,826.74
Vesting Period	The award vests on the third anniversary following the grant date
Nature of interest	Direct and Beneficial
	PA Schmidt
Nature of transaction	On market sale of shares
Transaction Date	16 August 2010
Number of Shares	452
Class of Security	Ordinary shares
Price per Share	R102.50
Total Value	R46,330.00
Vesting Period	The award vests on the third anniversary following the grant date
Nature of interest	Direct and Beneficial

In terms of paragraph 3.66 of the Listings requirements the necessary clearance for Messrs MD Fleischer and PA Schmidt to deal in the above securities has been obtained.

16 August 2010
Sponsor:
JP Morgan Equities Limited

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.

GOLD FIELDS LIMITED

Date: 16 August 2010

By:

A handwritten signature in dark ink, appearing to read "Willie Jacobsz", written in a cursive style.

Name: Mr W J Jacobsz
Title: Senior Vice President: Investor
Relations and Corporate Affairs