

FORM 6-K

UNITED STATES
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

Date: August 31, 2004

Commission File Number 001-31528

IAMGold Corporation

(Translation of registrant's name into English)

220 Bay Street, 5th Floor
Toronto, Ontario M5J 2W4, Canada
Tel: (416) 360-4710

(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 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 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): 82- _____

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.

IAMGOLD CORPORATION

Date: August 31, 2004

/s/ Larry E. Phillips

Larry E. Phillips
Vice-President, Corporate Affairs & Corporate Secretary

Exhibit Index

99.1 Extension agreement, dated August 27, 2004 between Gold Fields Limited and IAMGOLD Corporation.



EXECUTIVE

August 27, 2004

IAMGOLD Corporation
220 Bay Street, 5th Floor
Toronto, Ontario
M5J 2W4

Attention: Larry Phillips
Vice President, Corporate Affairs
and Corporate Secretary

Gold Fields Limited
Reg. 1968/004880/06
24 St Andrews Road
Parktown, 2193

Postnet Suite 252
Private Bag X30500
Houghton, 2041
South Africa

Tel +27 11 644-2400
Dir +27 11 644-2502
Fax +27 11 484-0590
www.goldfields.ca.za

Dear Sirs:

**Re: Letter Agreement Between Gold Fields Limited
and IAMGOLD Corporation**

We refer to the letter agreement dated August 11, 2004 (the "Letter Agreement") between Gold Fields Limited and IAMGOLD Corporation. Capitalized terms used and not otherwise defined herein have the meanings given to them in the Letter Agreement.

The parties desire to amend certain of the dates set out in the Letter Agreement to permit certain disclosure and other requirements of applicable securities regulators to be fulfilled on a timely basis.

Accordingly, this letter confirms our mutual agreement as follows:

1. Definitive Agreement Deadline. The Definitive Agreement Deadline is hereby extended to September 30, 2004.
2. Shareholder Meeting Date. References in paragraphs 6(c) and 7(c) of the Letter Agreement to November 19, 2004 are hereby replaced with references to December 1, 2004.
3. Completion Date. Paragraph 11 of the Letter Agreement is hereby deleted in its entirety and replaced with the following:

"IAMGOLD and Gold Fields shall use their commercially reasonable efforts to complete the Transaction by December 8, 2004 (provided that IAMGOLD or Gold Fields shall be entitled at any time and from time to time to unilaterally extend the date by which the Transaction is to be completed to a date not later than December 31, 2004, with the date by which the Transaction is to be completed being the "**Completion Date**"). For greater certainty, in the event that the Transaction has not been completed by December 31, 2004, each of IAMGOLD and Gold Fields shall be entitled to terminate this agreement."

The Letter Agreement shall in all other respects remain in full force and effect.

Directors: C M T Thompson* (Chairman), A J Wright (Deputy Chairman), I D Cockerill† (Chief Executive Officer), G J Gerwel, N J Holland† (Chief Financial Officer), K Ansah+, J M McMahon†, G R Parker‡, R L Pennant-Rea†, P J Ryan, T M G Sexwale, B R van Rooyen, C I von Christierson *Canadian, †British, ‡American, + Ghanaian Company Secretary: C Farrel

We would appreciate it if you would indicate your agreement with the foregoing by signing this letter where indicated below and returning a copy of the signed letter to Gold Fields by 11:59 p.m. (Toronto time) today.

Yours truly,

GOLD FIELDS LIMITED

By: "signed" Ian D. Cockerill

Ian D. Cockerill
Chief Executive Officer

Agreed to as of this 27th day of August, 2004.

IAMGOLD CORPORATION

By: "signed" Larry Phillips

Larry Phillips
Vice President, Corporate Affairs and Corporate Secretary