IAMGOLD CORP Form 6-K March 19, 2009

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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 13a-16 or 15d-16 of the Securities Exchange Act of 1934

Date: March 19, 2009 Commission File Number 001-31528

IAMGOLD Corporation

(Translation of registrant's name into English)

401 Bay Street Suite 3200, PO Box 153 Toronto, Ontario, Canada M5H 2Y4 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 o Form 40-F ý

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.

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INCORPORATION BY REFERENCE

Exhibit 3.1.1 to this Form 6-K is hereby incorporated by reference as an exhibit into the registration statement on Form F-10 of IAMGOLD Corporation (File No. 333-157782).

Description of Exhibit

Exhibit Description of Exhibit

3.1.1 Amending Agreement to the Underwriting Agreement dated March 17, 2009

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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.

IAMGOLD CORPORATION

Date: March 19, 2009

By: /s/ PAUL OLMSTED

Paul B. Olmsted Senior Vice-President, Corporate Development QuickLinks

INCORPORATION BY REFERENCE Signatures