

Jaguar Mining Inc  
Form 6-K  
May 17, 2010

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FORM 6-K

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

For the month of May 2010  
Commission File Number 001-33548

JAGUAR MINING INC.

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125 North State Street  
Concord, New Hampshire 03301  
(603) 224-4800

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(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):

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): 82-

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EXHIBIT INDEX

| Exhibit<br>Number | Description of Exhibit                    |
|-------------------|---|
| 99.1              | Material Change Report dated May 17, 2010 |

This Report on Form 6-K is incorporated by reference into the Registration Statement on Form S-8 of the Registrant, which was filed with the Securities and Exchange Commission on July 31, 2007, File No. 333-144969 and the Registration Statement on Form F-10 of the Registrant, which was filed with the Securities and Exchange Commission on June 16, 2009, File No. 333-160040.

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SIGNATURE

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.

JAGUAR MINING INC.

Date: May 17, 2010

By: /s/ Robert J. Lloyd  
Name: Robert J. Lloyd  
Title: Corporate Secretary