FRONTEER GOLD INC Form 6-K December 21, 2010

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 UNDER THE SECURITIES EXCHANGE ACT OF 1934

For the month of December, 2010

Commission File Number: 001-32557

Fronteer Gold Inc.

(Translation of registrant's name into English)

Suite 1650 - 1055 West Hastings Street, Vancouver B.C. Canada V6E 2E9

(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-

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SUBMITTED HEREWITH

Exhibits

- 99.1 Material Change report dated December 21, 2010
- 99.2 Material document

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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.

FRONTEER GOLD INC.

(Registrant)

Date: December 21, 2010 By: /s/ Sean Tetzlaff

Sean Tetzlaff

Title: Chief Financial Officer, Vice President, Finance &

Corporate Secretary