

Bridgeport Ventures Inc.
Form SC 13G
December 15, 2010

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, DC 20549

SCHEDULE 13G

UNDER THE SECURITIES EXCHANGE ACT OF 1934

Bridgeport Ventures Inc.

(Name of Issuer)

Common Shares, No Par Value

(Title of Class of Securities)

108404104

(CUSIP Number)

December 6, 2010

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

Rule 13d-1(b)

Rule 13d-1(c)

Rule 13d-1(d)

The information required on the remainder of this cover page shall not be deemed to be filed for the purpose of Section 18 of the Securities Exchange Act of 1934 (Act) or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

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1 NAMES OF REPORTING PERSONS
I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS
98-0489614
Fronteer Gold Inc.

2 (a) CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)
 (b)

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION
Ontario, Canada

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH **5** SOLE VOTING POWER

6 SHARED VOTING POWER
0

4,500,000 **7** SOLE DISPOSITIVE POWER

8
SHARED DISPOSITIVE POWER
0

9
AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
4,500,000

10

CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

11

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

13.8%¹

12

TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

CO

¹ As of November 19, 2010, 32,553,000 shares of the Issuer's common shares were issued and outstanding.

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Item 1(a). Name of Issuer:

Bridgeport Ventures Inc.

Item 1(b). Address of Issuer's Principal Executive Offices:

1000 36 Toronto Street
Toronto, Ontario
Canada M5C 2C5

Item 2(a). Name of Person Filing:

Fronteer Gold Inc.

Item 2(b). Address of Principal Business Office or, if None, Residence:

1055 West Hastings Street, Suite 1650
Vancouver, British Columbia
Canada V6E 2E9

Item 2(c). Citizenship:

Ontario, Canada

Item 2(d). Title of Class of Securities:

Common shares, no par value

Item 2(e). CUSIP Number:

108404104

Item 3. Not applicable

Item 4. Ownership.

- (a) Amount beneficially owned: 4,500,000 common shares
- (b) Percent of class: 13.8%
- (c) Number of shares as to which such person has:
 - (i) Sole power to vote or to direct the vote of 4,500,000 common shares.
 - (ii) Shared power to vote or direct the vote of 0 common shares.

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(iii) Sole power to dispose or to direct the disposition of 4,500,000 common shares.

(iv) Shared power to dispose or to direct the disposition of 0 common shares.

Item 5. Ownership of Five Percent or Less of a Class.

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following [].

Item 6. Ownership of More than Five Percent on Behalf of Another Person.

Not applicable

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company or Control Person.

Not applicable

Item 8. Identification and Classification of Members of the Group.

Not applicable

Item 9. Notice of Dissolution of Group.

Not applicable

Item 10. Certifications.

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

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SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Dated: December 13, 2010

FRONTEER GOLD INC.

/s/ Sean Tetzlaff

Name: Sean Tetzlaff

Title: Chief Financial Officer
