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

For the month of December 2008

Commission File Number 000-31062

Oncolytics Biotech Inc.

(Translation of registrant s name into English)

Suite 210, 1167 Kensington Crescent NW Calgary, Alberta, Canada T2N 1X7

(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 þ

Form 40-F o

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): o

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): o

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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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 o

No þ

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.

Oncolytics Biotech Inc. (Pagistrant)

(Registrant)

Date: December 18, 2008

By: /s/ Doug Ball

Doug Ball Chief Financial Officer

210, 1167 Kensington Crescent N.W. Calgary, Alberta Canada T2N 1X7

FOR IMMEDIATE RELEASE

Oncolytics Biotech Inc. Amends Terms of Previously Issued Broker Warrants

CALGARY, AB December 18, 2008 Oncolytics Biotech Inc. (Oncolytics or the Corporation) (TSX:ONC; NASDAQ:ONCY) announced today that the Corporation has entered into an agreement with Osprey Capital Partners (Osprey) to amend the terms of the 320,000 broker warrants issued to Osprey on December 29, 2005. Prior to the amendment, each broker warrant entitled Osprey to acquire one common share of Oncolytics at an exercise price of \$5.65 per warrant until 4:30 p.m. (Calgary time) on December 29, 2008. None of the warrants are held by insiders of the Corporation.

The amendments include adjusting the exercise price from \$5.65 to \$1.80, and extending the expiry date from December 29, 2008 to December 29, 2009, subject to acceleration of the expiry date in certain circumstances. The Toronto Stock Exchange has been provided with notice of the amendments, which will take effect 10 business days subsequent to the issue of this press release. Oncolytics will receive financial consideration for the price adjustment and extension of the expiry date from Osprey.

About Oncolytics Biotech Inc.

Oncolytics is a Calgary-based biotechnology company focused on the development of oncolytic viruses as potential cancer therapeutics. Oncolytics clinical program includes a variety of Phase I/II and Phase II human trials using REOLYSIN®, its proprietary formulation of the human reovirus, alone and in combination with radiation or chemotherapy. For further information about Oncolytics, please visit www.oncolyticsbiotech.com. This press release contains forward-looking statements. Forward-looking statements, including the Company s expectations related to the exercising of the warrants, as to progress in the clinical trial program and the Company s belief as to the potential of REOLYSIN[®] as a cancer therapeutic, involve known and unknown risks and uncertainties, which could cause the Company s actual results to differ materially from those in the forward-looking statements. Such risks and uncertainties include, among others, the availability of funds and resources to pursue Research and Development projects, the efficacy of REOLYSIN[®] as a cancer treatment, the success and timely completion of clinical studies and trials, the Company s ability to successfully commercialize REOLYSIN, uncertainties related to the research and development of pharmaceuticals, uncertainties related to the regulatory process and general changes to the economic environment. Investors should consult the Company s quarterly and annual filings with the Canadian securities commissions for additional information on risks and uncertainties relating to the forward looking statements. Investors are cautioned against placing undue reliance on forward-looking statements. The Company does not undertake to update these forward-looking statements, except as may be required pursuant to applicable securities laws.

FOR FURTHER INFORMATION PLEASE CONTACT:

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