

ONCOLYTICS BIOTECH INC

Form 6-K

April 23, 2008

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 April 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

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):

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.

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 - _____

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.
(Registrant)

Date: April 23, 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. Announces Journal of Immunology Publication on
Reovirus Activation of Dendritic Cells**

CALGARY, AB, April 23, 2008 Oncolytics Biotech Inc. (OncoLytics) (TSX:ONC, NASDAQ:ONCY) announced today that Prof. Alan Melcher and his research group at St. James' s University Hospital in Leeds, U.K. published the results of their work with reovirus in the May 1, 2008 online issue of *The Journal of Immunology*. The paper is entitled "Reovirus Activates Human Dendritic Cells to Promote Innate Antitumor Immunity."

The researchers studied the ability of reovirus to activate human dendritic cells (DC), key regulators of both innate and adaptive immune responses. The data demonstrated that reovirus directly activates human DC, which in turn stimulate innate killing of cancer cells by natural killer (NK) and T cells, suggesting a novel potential role for T cells in oncolytic virus-induced local tumor cell death. Combined with the virus' s ability to directly kill cancer cells, the researchers concluded that reovirus recognition by DC may enhance the efficacy of reovirus as a therapeutic agent.

This research provides additional insight into how reovirus interacts with the immune system, and expands our understanding of its multiple roles in the killing of cancer cells," said Dr. Matt Coffey, Chief Scientific Officer of Oncolytics.

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, within the meaning of Section 21E of the Securities Exchange Act of 1934, as amended. Forward-looking statements, including the implication of the materials published in "The Journal of Immunology" with respect to REOLYSIN[®], the Company' s expectations related to the results of trials investigating delivery of REOLYSIN[®], 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 and uncertainties related to the regulatory process. Investors should consult the Company' s quarterly and annual filings with the Canadian and U.S. 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.

FOR FURTHER INFORMATION PLEASE CONTACT:

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