

MEDICURE INC  
Form 6-K  
April 21, 2010

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**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 **April, 2010**

Commission File Number: **001-31995**

**MEDICURE INC.**

(Translation of registrant's name into English)

**4-1200 Waverley Street  
Winnipeg, MB Canada R3T 0P4**  
(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.

[ x ] 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 [ 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 Interim Financial Statements for the Period Ended February 28, 2010

99.2 Management's Discussion and Analysis for the Period Ended February 28, 2010

99.3 Form 52-109F2 Certification of Interim Filings Full - Certificate CEO

99.4 Form 52-109F2 Certification of Interim Filings Full - Certificate CFO

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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.

**Medicare Inc.**

(Registrant)

Date: April 20, 2010

By: */s/ Dr. Albert D. Friesen*

Dr. Albert D. Friesen

Title: President & CEO

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