

SUNCOR ENERGY INC  
Form 6-K  
February 29, 2012

## **FORM 6-K**

# **SECURITIES AND EXCHANGE COMMISSION**

WASHINGTON, D.C. 20549

**Report of Foreign Private Issuer  
Pursuant to Rule 13a - 16 or 15d - 16 of  
the Securities Exchange Act of 1934**

**For the month of: February 2012**

**Commission File Number: 1-12384**

## **SUNCOR ENERGY INC.**

(Name of registrant)

**150 6th Avenue S.W.**

**P.O. Box 2844**

**Calgary, Alberta**

**Canada, T2P 3E3**

Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F:

Form 20-F

Form 40-F

Indicate by check mark whether the registrant by furnishing the information contained in this Form is also thereby furnishing the information to the SEC pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934:

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Yes

No

If  is marked, indicate the number assigned to the registrant in connection with Rule 12g3-2(b):

N/A

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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.

**SUNCOR ENERGY INC.**

Date:

By:

February 29, 2012

*Shawn Poirier*  
Shawn Poirier  
Assistant Corporate Secretary

**EXHIBIT INDEX**

<b>Exhibit</b>	<b>Description of Exhibit</b>
99.1	Press Release Dated February 28, 2012, Suncor Energy Announces Automatic Share Repurchase Plan