

NOVA CHEMICALS CORP /NEW  
Form 6-K  
May 10, 2012

**UNITED STATES**  
**SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

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**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 May 2012**

**Commission File Number: 1-13064**

**NOVA Chemicals Corporation**

**1000 Seventh Avenue S.W., Calgary, Alberta, Canada, T2P 5L5**

(Address of principal executive office)

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

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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):

A copy of the Registrant's Press Release dated May 9, 2012 NOVA Chemicals and PFB Corporation sign letter of intent for acquisition of NOVA Chemicals Performance Styrenics business, is furnished herewith.

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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.

**NOVA Chemicals Corporation**

*/s/ Ronald E.J. Kemle*  
Ronald E.J. Kemle  
Vice President and Deputy General Counsel

May 10, 2012

**EXHIBITS**

Attached hereto is:

99.1 Press Release dated May 9, 2012 - NOVA Chemicals and PFB Corporation sign letter of intent for acquisition of NOVA Chemicals Performance Styrenics business