NOVA CHEMICALS CORP /NEW Form 6-K March 13, 2012

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 March 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.

Form 20-F x	Form 40-F o
Indicate by check mark if the registrant is submitting the Form 6-F	X in paper as permitted by Regulation S-T Rule 101(b)(1): o
Indicate by check mark if the registrant is submitting the Form 6-F	K in paper as permitted by Regulation S-T Rule 101(b)(7): o
A copy of the Company s Fourth Quarter and Full Year 2011 Ear	nings Release is furnished herewith.

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/ Alan Pretter Alan Pretter Corporate Secretary

March 13, 2012

2

EXHIBITS

Attached hereto is:

99.1 Fourth Quarter and Full Year 2011 Earnings Release.

3