

THE SECURITIES ACT

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Order No. 5589

)

Section 148

)

January 29, 2008

Chromos Molecular Systems Inc.

WHEREAS:

(A) Chromos Molecular Systems Inc. (the "Issuer") is subject to the requirements of Part XII of The Securities Act (Manitoba) (the "Act") and National Instrument 51-102 Continuous Disclosure Obligations ("NI 51-102");

(B) The Issuer has a financial year end of December 31;

(C) The Issuer has failed to file with The Manitoba Securities Commission (the "Commission") a copy of its Annual Financial Statements and Annual MD&A for the Year ended December 31, 2006 as required by Part XII of the Act and NI 51-102;

(D) On the basis of the foregoing, I am of the opinion that it is in the public interest that trading in the securities of the Issuer should cease forthwith for a period of fifteen days and I am further of the opinion that the holding of a hearing would cause a delay which would be prejudicial to the public interest.

I HEREBY ORDER under a delegation to me by the Commission under subsection 4(1) of the Act of the powers in that behalf:

1. THAT, under section 148(1) of the Act, trading in the securities of the Issuer shall cease forthwith for a period of fifteen days from January 29, 2008 to February 12, 2008, both dates inclusive, or until such earlier date as:

(a) the Issuer files its Annual Financial Statements and Annual MD&A for the Year ended December 31, 2006 and pays all outstanding filing fees, if any, to the Commission; and

(b) the Issuer submits a written application to the Commission in accordance with National Policy 12-202 Revocation of a Compliance-related Cease Trade Order to have this order revoked.

"R. B. Bouchard"
DIRECTOR