

Aeterna Zentaris Inc.  
Form 6-K  
May 21, 2013

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

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FORM 6-K

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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 2013  
Commission file number 0-30752

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AETERNA ZENTARIS INC.

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1405 du Parc-Technologique Boulevard  
Quebec City, Québec  
Canada, G1P 4P5  
(Address of principal executive offices)

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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 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 the registrant by furnishing the information contained in this Form is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934.  
Yes  No

If "Yes" is marked, indicate below the file number assigned to the registrant in connection with Rule 12g3-2(b):  
82- .

DOCUMENTS INDEX

Documents Description

99.1 Press release dated May 21, 2013.

99.2 At market issuance sales agreement dated May 21, 2013 between the registrant and MLV & Co. LLC.

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SIGNATURE

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.

AETERNA ZENTARIS INC.

Date: May 21, 2013

By: /s/ Dennis Turpin  
Dennis Turpin  
Senior Vice President and Chief Financial Officer