

Aeterna Zentaris Inc.  
Form 6-K  
March 28, 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 0-30752

**ÆTERNA ZENTARIS INC.**

1405 du Parc-Technologique Boulevard

Quebec City, Québec

Canada, G1P 4P5

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(Address of principal executive offices)

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      | Aeterna Zentaris Reports Fourth Quarter and Full-Year 2011 Financial and Operating Results                                                            |
| 99.2      | Aeterna Zentaris Management's Discussion and Analysis of Financial Condition and Results of Operations for the financial year ended December 31, 2011 |
| 99.3      | Aeterna Zentaris Consolidated Financial Statements As at December 31, 2011 and December 31, 2010 and for the years ended December 31, 2011 and 2010   |

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.

ÆTERNA ZENTARIS INC.

Date: March 27, 2012

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