

Aeterna Zentaris Inc.  
Form 6-K  
April 16, 2010

**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 April 2010**

**Commission file number 0-30752**

**ÆTERNA ZENTARIS INC.**

**1405 du Parc-Technologique Blvd.**

**Quebec City, Québec**

**Canada, G1P 4P5**

(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-\_\_\_\_\_.

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**DOCUMENTS INDEX**

Documents Description

- 99.1 Press release dated April 15, 2010
- 99.2 Placement agency agreement dated April 15, 2010 between the registrant and Rodman & Renshaw, LLC
- 99.3 Form of Common Share Purchase Warrant to be issued by the registrant to the investors in the offering
- 99.4 Form of Securities Purchase Agreement, dated April 15, 2010, by and between the registrant and the investors in the offering

**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: April 16, 2010

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