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 2018

Commission File Number: 001-32001

Aptose Biosciences Inc.

(Translation of registrant's name into English)

5955 Airport Road, Suite 228 Mississauga, ON L4V 1R9 (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 [X]

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):

On March 6, 2018, the Registrant issued a press release, a copy of which is attached hereto as Exhibit 99.1 and is incorporated herein by reference.

(c) Exhibit 99.1. Press release dated March 6, 2018

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.

Aptose Biosciences Inc.
(Registrant)

Date: March 6, 2018

Aptose to Participate in Upcoming Investor Conferences In March 2018

SAN DIEGO and TORONTO, March 06, 2018 (GLOBE NEWSWIRE) -- Aptose Biosciences Inc. ("Aptose" or the "Company") (NASDAQ:APTO) (TSX:APS), a clinical-stage company developing highly differentiated therapeutics that target the underlying mechanisms of cancer, today announced that William G. Rice, Ph.D., Chairman, President and Chief Executive Officer, and Gregory K. Chow, Senior Vice President and Chief Financial Officer, will participate at the upcoming conferences:

• Cowen and Company 38th Annual Healthcare Conference

Time: 12:00 p.m. EDT

Date: Monday, March 12, 2018

Location: The Boston Marriott Copley Place, Boston, MA

Live webcast: http://wsw.com/webcast/cowen46/apto/

• 30th Annual ROTH Conference

Time: 9:30 a.m. PDT

Date: Tuesday, March 13, 2018

Location: The Ritz Carlton, Laguna Niguel, CA Live webcast: http://wsw.com/webcast/roth32/apto/

• 2018 B. Riley & Co. China Healthcare Investment Partnering Symposium

Time: 11:30 a.m. CST (China Standard Time)

Date: Friday, March 16, 2018

Location: The Intercontinental Hotel, Hangzhou, People's Republic of China

Live webcast: http://wsw.com/webcast/brileyco20/apto/

• Oppenheimer 28th Annual Healthcare Conference

Time: 8:00 a.m. EDT

Date: Wednesday, March 21, 2018

Location: The Westin Grand Central, New York, NY

Live webcast: https://veracast.com/webcasts/opco/healthcare2018/76201109497.cfm

The audio webcasts can also be accessed through the Aptose website at www.aptose.com and will be archived shortly after the live event and available for 90 days.

About Aptose Biosciences

Aptose Biosciences is a clinical-stage biotechnology company committed to developing personalized therapies addressing unmet medical needs in oncology. Aptose is advancing new therapeutics focused on novel cellular targets on the leading edge of cancer. The company's small molecule cancer therapeutics pipeline includes products designed to provide single agent efficacy and to enhance the efficacy of other anticancer therapies and regimens without overlapping toxicities. For further information, please visit www.aptose.com.

For further information, please contact:

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