

**FORM 6-K**  
**SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

**Report of Foreign Issuer**

**Pursuant to Rule 13a-16 or 15d-16 of  
the Securities Exchange Act of 1934**

For the Month of December, 2014

Commission File Number 1-32001

**Aptose Biosciences Inc.**

(Translation of registrant's name into English)

**2 Meridian Road, Toronto, Ontario M9W 4Z7**

(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): \_\_\_\_\_

**Note:** Regulation S-T Rule 101(b)(1) only permits the submission in paper of a Form 6-K if submitted solely to provide an attached annual report to security holders.

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): \_\_\_\_\_

**Note:** Regulation S-T Rule 101(b)(7) only permits the submission in paper of a Form 6-K if submitted to furnish a report or other document that the registrant foreign private issuer must furnish and make public under the laws of the jurisdiction in which the registrant is incorporated, domiciled or legally organized (the registrant's "home country"), or under the rules of the home country exchange on which the registrant's securities are traded, as long as the report or other document is not a press release, is not required to be and has not been distributed to the registrant's security holders, and, if discussing a material event, has already been the subject of a Form 6-K submission or other Commission filing on EDGAR.

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

**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.

Aptose Biosciences Inc.

Date: December 3, 2014

By: /s/ "Gregory Chow"

Gregory Chow

Senior Vice President and Chief Financial Officer

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**EXHIBIT INDEX**

- 99.1 Press Release dated December 3, 2014 - Aptose Biosciences to Present Preclinical Research Update for APTO-253 at the 56th American Society of Hematology Annual Meeting

## Aptose Biosciences to Present Preclinical Research Update for APTO-253 at the 56th American Society of Hematology Annual Meeting

SAN DIEGO AND TORONTO, Dec. 3, 2014 /CNW/ - Aptose Biosciences Inc. (Aptose) (NASDAQ: APTO; TSX: APS), a clinical-stage company developing targeted agents and molecular diagnostics to treat the underlying mechanisms of cancer, today announced that preclinical data for its lead investigational anticancer therapeutic APTO-253 will be presented at the 56th American Society of Hematology (ASH) Annual Meeting and Exposition in San Francisco, December 6-9, 2014.

At the 2014 ASH meeting, Aptose will present preclinical in vivo data on APTO-253 including studies evaluating activity as a single agent and in combination with azacitidine in murine xenograft AML models. The accepted abstract is available online on the ASH conference website: <https://ash.confex.com/ash/2014/webprogram/Paper73402.html>

### Poster Presentation Details

*Title: APTO -253 Induces KLF4 to Promote Potent in Vitro Pro-Apoptotic Activity in Hematologic Cancer Cell Lines and Antitumor Efficacy as a Single Agent and in Combination with Azacitidine in Animal Models of Acute Myelogenous Leukemia.*

- Monday, December 8, 2014, 6:00 PM - 8:00 PM PT
- Location: West Building, Level 1 (Moscone Center)
- Paper # 4813
- Session: 802. Chemical Biology and Experimental Therapeutics: Poster III

APTO-253 is a clinical-stage small molecule therapeutic that acts through induction of the innate tumor suppressor gene Krüppel-like factor 4 (KLF4), and suppression of KLF4 gene expression has been reported as a key driver in the leukemogenesis of AML and subsets of other hematologic diseases. Earlier this year, Aptose researchers reported the ability of APTO-253 to induce cell death, or apoptosis, in multiple blood cancer cell lines including AML, as well as in vitro synergy with various classes of conventional approved therapies for AML or myelodysplastic syndromes (MDS).

In a prior single-agent, Phase 1 clinical study, APTO-253 demonstrated antitumor activity and a robust safety profile in patients with solid tumors.

APTO-253 is currently being evaluated in an ongoing open-label, single-agent, dose-escalating Phase 1b clinical trial in patients with relapsed or refractory hematologic malignancies, including AML and high-risk MDS.

### About Aptose

Aptose Biosciences is a clinical-stage biotechnology company committed to discovering and 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 research coupled with companion diagnostics to identify the optimal patient population for our products. The company's small molecule cancer therapeutics pipeline includes products designed to provide additive or synergistic efficacy with existing anti-cancer therapies and regimens without overlapping toxicities. For further information, please visit [www.aptosebiosciences.com](http://www.aptosebiosciences.com).

### Forward Looking Statements

This press release contains forward-looking statements within the meaning of Canadian and U.S. securities laws. Such statements include, but are not limited to, statements relating to Aptose's plans, objectives, expectations and intentions and other statements including words such as "continue", "expect", "intend", "will", "should", "would", "may", and other similar expressions. Such statements reflect our current views with respect to future events and are subject to risks and uncertainties and are necessarily based upon a number of estimates and assumptions that, while considered reasonable by us are inherently subject to significant business, economic, competitive, political and social uncertainties and contingencies. Many factors could cause our actual results, performance or achievements to be materially different from any future results, performance or achievements described in this press release. Such expressed or implied factors include, among others: changes in our stock price; our ability to meet listing requirements; our ability to obtain the capital required for research and operations; the inherent risks in early stage drug development including demonstrating efficacy; development time/cost and the regulatory approval process; the progress of our clinical trials; our ability to find and enter into agreements with potential partners; our ability to attract and retain key personnel; changing market conditions; stock market volatility; and other risks detailed from time-to-time in our ongoing quarterly filings, annual information forms, annual reports and annual filings with Canadian securities regulators and the United States Securities and Exchange Commission.

Should one or more of these risks or uncertainties materialize, or should the assumptions set out in the section entitled "Risk Factors" in our filings with Canadian securities regulators and the United States Securities and Exchange Commission underlying those forward-looking statements prove incorrect, actual results may vary materially from those described herein. These forward-looking statements are made as of the date of this press release and we do not intend, and do not assume any obligation, to update these forward-looking statements, except as required by law. We cannot assure you that such statements will prove to be accurate as actual results and future events could differ materially from those anticipated in such statements. Investors are cautioned that forward-looking statements are not guarantees of future performance and accordingly investors are cautioned not to put undue reliance on forward-looking statements due to the inherent uncertainty therein.

SOURCE Aptose Biosciences Inc.

PDF available at: [http://stream1.newswire.ca/media/2014/12/03/20141203\\_C9024\\_DOC\\_EN\\_43277.pdf](http://stream1.newswire.ca/media/2014/12/03/20141203_C9024_DOC_EN_43277.pdf)

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CNW 08:00e 03-DEC-14