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

FORM 8-K

CURRENT REPORT

PURSUANT TO SECTION 13 OR 15(d) OF THE
SECURITIES EXCHANGE ACT OF 1934

Date of Report (Date of earliest event reported): February 25, 2015

LIXTE BIOTECHNOLOGY HOLDINGS, INC.

DELAWARE	000-51436	20-2903526
(State or other jurisdiction of incorporation)	(Commission File Number)	(IRS Employer Identification No.)

248 Route 25A, No. 2
East Setauket, New York 11733
(Address of principal executive offices)

Registrant's telephone number, including area code: 631 942 7959

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (See General Instruction A.2. below):

[ ] Written communications pursuant to Rule 425 under the Securities Act of 1933 (17 CFR 230.425)

[ ] Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

[ ] Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

[ ] Pre-commencement communications pursuant to Rule 13e-4(e) under the Exchange Act (17 CFR 240.13e-4(c))

Item 8.01 Other Events

On February 25, 2015, the Company issued a press release regarding certain developments.

Item 9.01 Financial Statements and Exhibits

(d) Exhibits

There is filed as part of this report the exhibit listed on the accompanying Index to Exhibits, which information is incorporated herein by reference.

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 hereunto duly authorized.

Date: March 4, 2015

LIXTE BIOTECHNOLOGY HOLDINGS, INC.

By: */s/ JOHN S. KOVACH*

John S. Kovach, Chief Executive Officer

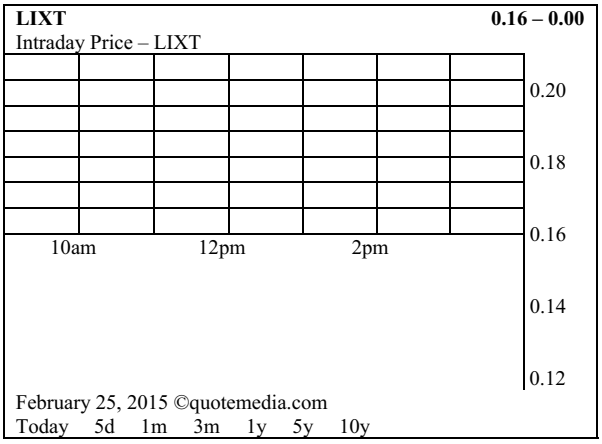
Index to Exhibits

Exhibit No.	Description
99.1	Press Release.

Lixte Biotechnology's Lead Compound Reported To Be Active Against Hematologic Cancers In PreClinical Studies

EAST SETAUKTET, N.Y., Feb. 25, 2015 /PRNewswire/ Lixte Biotechnology Holdings Inc. (OTCQB: LIXT), noted that two recent reports suggest that its lead anticancer compound LB100 may have a role in the treatment of at least two hematological cancers.

Dr. John Kovach, founder and president of Lixte, said that "Lixte has been developing LB100 for the treatment of solid tumors because this novel compound potentiates the therapeutic activity of chemotherapy and radiotherapy without significant increases in toxicity in several animal models. LB100 is currently in Phase I clinical trial to determine the appropriate dose of the compound alone and in combination with docetaxel for subsequent investigation of the combination in docetaxelsensitive tumors. The finding that LB100 may have anticancer activity against leukemias and other hematologic disorders would significantly increase potential clinical applications."



Dr. Kovach continued, "Investigators at the Terry Fox Cancer Center, Vancouver, BC, reported at the American Society of Hematology in December 2014, that LB100 and a lipidsoluble homolog of LB100 (LB102) are active against imatinibnaive and imatinibresistant human chronic myelogenous leukemia cells (CML) (Lai et al (2014) Blood 124: (21)899). Since almost all CML patients have remission of their disease with imatinib treatment yet eventually relapse, a new drug active alone or with imatinib for the treatment of imatinibresistant CML would be welcome. Also of potential relevance to the use of LB100 in hematological diseases is a report by investigators at the Moffitt Cancer Center, Tampa, Florida, that inhibition of protein phosphatase 2A (PP2A) is the mechanism of action by which the Celgene drug lenalidomide exerts for its clinical benefit in del5q myelodysplastic syndrome (MDS). PP2A is the target of LB100 and the Moffitt investigators speculate that a novel inhibitor of PP2A like LB100 may be useful in the treatment of del5qMDS given alone or in combination with lenalidomide (Sallman et al (2014) Front Oncol. 4:264)."

Dr. Kovach concluded, "The primary goal of our current Phase I trial is to determine the maximum tolerable dose (MTD) of LB100 in combination with docetaxel and then to test to what extent LB100 improves the efficacy of docetaxel against common solid tumors in Phase 2 trials. However we are currently completing determination of the MTD of LB100 alone, a step required before combining LB100 with escalating doses of docetaxel. The new preclinical data briefly summarized above suggest that LB100 merits evaluation in del5qMDS and imatinibresistant CML once the safety profile of LB100 is established even as we proceed to evaluate LB100 with docetaxel in solid tumors."

About Lixte Biotechnology Holdings, Inc.

Lixte is a drug discovery company that uses biomarker technology to identify enzyme targets associated with serious common diseases and then design novel compounds to attack those targets. Lixte's product pipeline encompasses two major categories of compounds at various stages of preclinical and clinical development which the company believes have broad therapeutic potential not only for cancer but for other debilitating and lifethreatening diseases. Lixte's unique phosphatase inhibitor, LB100, is in a Phase I cancer trial (see ClinicalTrials.gov: Identifier NCTO1837667).

Forward-Looking Statements

This announcement contains certain forwardlooking statements within the meaning of Section 27A of the Securities Act of 1933, and Section 21E of the Securities Exchange Act of 1934. For example, statements regarding the Company's financial position, business strategy and other plans and objectives for future operations, and assumptions and predictions about future product demand, supply, manufacturing, costs, marketing and pricing factors are all forward-looking statements. These statements are generally accompanied by words such as "intend," anticipate," "believe," "estimate," "potential(ly)," "continue," "forecast," "predict," "plan," "may," "will," "could," "would," "should," "expect" or the negative of such terms or other comparable terminology. The Company believes that the assumptions and expectations reflected in such forward-looking statements are reasonable, based on information available to it on the date hereof, but the Company cannot provide assurances that these assumptions and expectations will prove to have been correct or that the Company will take any action that the Company may presently be planning. However, these forward-looking statements are inherently subject to known and unknown risks and uncertainties. Actual results or experience may differ materially from those expected or anticipated in the forward-looking statements. Factors that could cause or contribute to such differences include, but are not limited to, regulatory policies, available cash, research results, competition from other similar businesses, and market and general economic factors. This discussion should be read in conjunction with the condensed consolidated financial statements and notes thereto in the Annual Report on Form 10-Q for September 30, 2014.

For additional information, please see: www.lixte.com.

To view the original version on PR Newswire, visit:http://www.prnewswire.com/newsreleases/lixte-biotechnologysleadcompoundreportedtobeactiveagainsthematologiccancersinpreclinicalstudies300041098.html

SOURCE Lixte Biotechnology Holdings, Inc.

Source: PR Newswire (February 25, 2015 9:04 AM EST)