UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 8-K

CURRENT REPORT
Pursuant to Section 13 or Section 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): April 17, 2023

ANIXA BIOSCIENCES, INC.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation)

001-37492 (Commission File Number)

11-2622630 (IRS Employer Identification No.)

3150 Almaden Expressway, Suite 250 San Jose, CA (Address of principal executive offices)

accounting standards provided pursuant to Section 13(a) of the Exchange Act. \square

95118 (Zip Code)

Registrant's telephone number, including area code: (408) 708-9808

(Former name or former address, if changed since last report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation to the registrant under any of the following provisions:

Written communications pursuant to Rule 425 under the Securities Act (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(c) under the Exchange Act (17 CFR 240.13e-4(c))

Securities registered pursuant to Section 12(b) of the Act:

Title of each class
Trading Symbol(s)
Name of each exchange on which registered

Common Stock, par value \$0.01 per share
ANIX
The NASDAQ Stock Market LLC

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

Item 7.01. Regulation FD Disclosure.

Emerging growth company □

On April 17, 2023, Anixa Biosciences, Inc. ("we," "us," "our," or the "Company") issued a press release announcing that the Company and The Cleveland Clinic Foundation ("Cleveland Clinic") presented positive data for the Phase 1 study of its breast cancer vaccine. The press release, which is furnished as Exhibit 99.1 hereto, was issued following a presentation made by G. Thomas Budd, M.D. of Cleveland Clinic's Taussig Cancer Institute. Furnished hereto as Exhibit 99.2 is the poster utilized by Dr. Budd for the presentation.

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial

Statements that are not historical fact may be considered forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements are not statements of historical facts, but rather reflect our current expectations concerning future events and results. We generally use the words "believes," "expects," "intends," "plans," "anticipates," "likely," "will" and similar expressions to identify forward-looking statements. Such forward-looking statements, including those concerning our clinical trials, involve risks, uncertainties and other factors, some of which are beyond our control, which may cause our actual results, performance or achievements, or industry results, to be materially different from any future results, performance, or achievements expressed or implied by such forward-looking statements. These risks, uncertainties and factors include, but are not limited to, those factors set forth in "Item 1A - Risk Factors" and other sections of our most recent Annual Report on Form 10-K as well as in our Quarterly Reports on Form 10-Q and Current Reports on Form 8-K. We undertake no obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by law. You are cautioned not to unduly rely on such forward-looking statements when evaluating the information presented in this Current Report.

Item 9.01. Financial Statements and Exhibits

The following exhibits are filed with this Current Report on Form 8-K:

Exhibit No.	Description
99.1	Press Release
99.2	<u>Presentation</u>
104	Cover Page Interactive Data File (embedded within the Inline XBRL document).

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.

Dated: April 17, 2023

ANIXA BIOSCIENCES, INC.

By: /s/ Michael J. Catelani

Name: Michael J. Catelani

Title: President, Chief Operating Officer and Chief Financial Officer



Anixa Biosciences, Inc. 3150 Almaden Expressway Suite 250 San Jose, CA 95118 408.708.9808 NASDAQ: ANIX

Anixa Biosciences and Cleveland Clinic Present Positive Data for Phase 1 Study of Breast Cancer Vaccine

Immune responses were observed at all dose levels

SAN JOSE, Calif., April 17, 2023 -- Anixa Biosciences, Inc. (NASDAQ: ANIX), a biotechnology company focused on the treatment and prevention of cancer today announced that Cleveland Clinic presented the most up-to-date data from the Phase 1 Trial of its breast cancer vaccine. The data presented showed that in the vaccinated women who have been tested to date, various levels of antigen-specific T cell responses were observed at all dose levels. The presentation was made by G. Thomas Budd, M.D., of Cleveland Clinic's Taussig Cancer Institute and principal investigator of the study. This breast cancer vaccine technology was invented at Cleveland Clinic, where the trial is being conducted, and Anixa is the exclusive worldwide licensee. The trial is funded by a grant from the U.S. Department of Defense to Cleveland Clinic.

The Phase 1a study is designed to evaluate the safety of the vaccine, identify the Maximum Tolerated Dose (MTD), and monitor the immune response in vaccinated women. All participants in the Phase 1a study are women who have had triple negative breast cancer (TNBC) within the last three years and have been curatively treated having undergone standard of care. At the time of vaccination, these participants are tumor-free, as determined by standard diagnostic techniques, but are at high risk of recurrence.

"We are testing this vaccine to determine if a vaccinated patient's immune system is trained to destroy cancer cells expressing α -lactalbumin, a protein found on TNBC cancer cells and not on normal cells. To evaluate the vaccination effect, immune mediated biomarkers of T cell activation and antibody production specific against α -lactalbumin are measured. We are heartened by the data, and look forward to additional studies," stated Dr. Amit Kumar, Chairman and CEO of Anixa Biosciences.

"We are pleased that varying degrees of antigen-specific T cell responses were observed at all dose levels tested to date, however, the Phase 1 trial is not designed to determine whether the responses are sufficient to prevent recurrence or primary tumorogenesis, said Dr. Budd. "We expect successive studies to determine how effective the immune responses are in preventing cancer."

About Triple-Negative Breast Cancer

One in eight women in the U.S. will be diagnosed with an invasive breast cancer at some point in their lives. Approximately 10-15% of those diagnoses are TNBC, however TNBC accounts for a disproportionately higher percentage of breast cancer deaths and has a higher rate of recurrence. This form of breast cancer is twice as likely to occur in African-American women, and approximately 70% to 80% of the breast tumors that occur in women with mutations in the BRCA1 genes are triple-negative breast cancer.



About Anixa Bioscience's Breast Cancer Vaccine

Anixa's breast cancer vaccine takes advantage of endogenously produced proteins that have a function at certain times in life, but then become "retired" and disappear from the body. One such protein is a breast-specific lactation protein, α -lactalbumin, which is no longer found post-lactation in normal, aging tissues, but is present in the majority of triple-negative breast cancers. Activating the immune system against this "retired" protein provides preemptive immune protection against emerging breast tumors that express α -lactalbumin. The vaccine also contains an adjuvant that activates an innate immune response, which allows the immune system to mount a response against emerging tumors to prevent them from growing. This vaccine technology was invented by the late Dr. Vincent Tuohy, who was the Mort and Iris November Distinguished Chair in Innovative Breast Cancer Research in the Department of Inflammation and Immunity at Cleveland Clinic's Lerner Research Institute. Dr. Tuohy was inventor of the technology, which Cleveland Clinic exclusively licensed to Anixa Biosciences. He was entitled to a portion of the commercialization revenues received by Cleveland Clinic and also held equity in Anixa.

About Anixa Biosciences, Inc.

Anixa is a clinical-stage biotechnology company focused on the treatment and prevention of cancer. Anixa's therapeutic portfolio consists of an ovarian cancer immunotherapy program being developed in collaboration with Moffitt Cancer Center, which uses a novel type of CAR-T, known as chimeric endocrine receptor T-cell (CER-T) technology. The company's vaccine portfolio includes a novel vaccine being developed in collaboration with Cleveland Clinic to prevent breast cancer – specifically triple negative breast cancer (TNBC), the most lethal form of the disease – as well as a vaccine to prevent ovarian cancer. These vaccine technologies focus on immunizing against "retired" proteins that have been found to be expressed in certain forms of cancer. Anixa's unique business model of partnering with world-renowned research institutions on clinical development allows the company to continually examine emerging technologies in complementary fields for further development and commercialization. To learn more, visit www.anixa.com or follow Anixa on Twitter, LinkedIn, Facebook and YouTube.

Forward-Looking Statements: Statements that are not historical fact may be considered forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements are not statements of historical facts, but rather reflect Anixa's current expectations concerning future events and results. We generally use the words "believes," "expects," "intends," "plans," "anticipates," "likely," "will" and similar expressions to identify forward-looking statements. Such forward-looking statements, including those concerning our expectations, involve risks, uncertainties and other factors, some of which are beyond our control, which may cause our actual results, performance or achievements, or industry results, to be materially different from any future results, performance, or achievements expressed or implied by such forward-looking statements. These risks, uncertainties and factors include, but are not limited to, those factors set forth in "Item 1A - Risk Factors" and other sections of our most recent Annual Report on Form 10-K as well as in our Quarterly Reports on Form 10-Q and Current Reports on Form 8-K. We undertake no obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by law. You are cautioned not to unduly rely on such forward-looking statements when evaluating the information presented in this press release.

Contact:

Abstract Presentation Number: 3035

Phase I trial of alpha-lactalbumin vaccine in high-risk operable triple-negative breast cancer

George Thomas Budd, Justin M. Johnson, Emily Rhoades, Halle Moore, Holly Levengood, Megan Kruse, Erin Roesch, Jame Abraham, Brenna Elliott, Elena Haury, Rachel Swartz, Holly Pederson, Zahraa Al Hilli, Vincent K. Tuohy Cleveland Clinic, Cleveland, OH

Abstract Presentation Number: 3035

Introduction

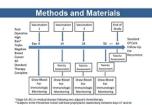


G. Thomas Budd, MD Cleveland Clinic, Clevel buddg@cof.org 216-444-6490

Conflict of Interest Statement in the abstract and poster has been from social rethrology discussed in the abstract and poster has been listened to Arisa Brownerse, Inc. Clan. Jose, CA, WKT and JMJ, are the interests on sissed and pending patient related to the vaccine technologic discussed in this manuscript and may earn regulate for such if the vaccine becomes commercially successful, in addition, VKT and JMJ have received equity in Arisa Biosciences, Inc. in the form of stock options. To abstract and potent were prepared without any input or centure.

Funding

Department of Defense Award Numbers: W81XWH-17-1-0592 W81XWH-17-1-0593



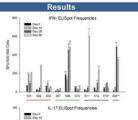
Endpoints:

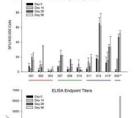
Dose Levels

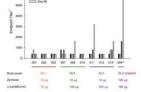
Dose Level	α-Lactalbumin	Zymosan	Notes
1	10 µg	10 µg	
2	100 µg	10 µg	
3	500 µg	10 µg	DLT experienced, dose will not be used
Original 2	100 µg	100 μg	DLT experienced, dose will not be used
26	100 µg	30 µg	
20	100 µg	60 µg	
2d	200 μg	10 µg	If dose level 2b proves too toxic
2e	200 µg	30 µg	If dose level 2c proves too toxic

Results

Subject ID	Age	Race	Reproductive History	Fed?	Thos	Stage	Treatment Regimen	Prior Treatment o-Yacsine (d)
081	44	White	G3 PS A0 L3	No	T1.N01/0	BA.	AG-T	862
082	66	White	G3P2A1L2	No	T2 N2 M0	BC .	AG-Teb	735
080	65	White	G2 P2 A0 L2	No	T2:N0:N0	IA.	AC	478
007	71	White	GSPS A1 L4	Yes	T1 N1 MD	19	AC-T Xeloda	248
000	67	Asian	GO PO AD LO	N/A	T2 N0 M0	113	AG-T	515
010	710	White	GIPLAULI	No	T2 N0 N0	IA.	AG-T	467
014"	53	White	GOPOAOLO	N/A	T2 N0 M0	BA	AC-T Xeloda	200
015"	53	All. Art.	G2 P2 A0 L2	Yes	T1 N1 N0	EA.	AC-T Xelada	30
0197	61	White	G2 P2 A0 L2	No	T1 N0 N00	BA.	AC-Trib Xeloda	671
011	TI	White	02P1A1L1	No	TS NO 1/0	113	AG-Teb-Xelbda	763
012	45	White	02 P2 A0 L2	Yes	T2 N1 M0	113	TC-AC pembra	41
013	58	White	G1P1A0L1	No	T2 N1 N0	10	AC-T Xeloda	172
084	58	White	G5 P3 A2 L3	Yes	T2 N2 N0	110	AC-T Xeloda	40







Worst Toxicity by Dose Level							
Dose Level	c-Lac dose (mcg)	Zymosan dose (mcg)	Cumulative Number				
			Patients	Grade 0	Grade 1	Grade 2	Grade 3
1	10	10	3		3		
2	100	10	6		6		
3	500	10	3		2		1
Original 2	100	100	- 1				1

Toxicity has consisted predominantly of injection site reactions characterized by erythema, swelling, lump formation, pruritis, and in severe cases ulceration with delayed healing.

Discussion, Conclusions, and Plans

- Varying degrees of antigen-specific T cell responses were observed at all dose levels
- Per protocol, dose levels 1 and 2 are being expanded to 6 subjects each
- Based on current data, dose level 2 appears to be the maximum tolerated dose
- Additional dose levels will be explored Dose expansion cohorts in BRCA1/PALB2
- carriers planning to undergo prophylactic bilateral mastectomy have opened Dose expansion cohort with concurrent
- pembrolizumab in the adjuvant setting is planned

