UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, DC 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): September 11, 2017

ZIVO BIOSCIENCE, INC.
(Exact name of registrant as specified in its charter)

Nevada	**000-30415**	**87-0699977**
(State or other jurisdiction of incorporation)	(Commission File Number)	(IRS Employer Identification No.)

2804 Orchard Lake Road, Suite 202, Keego Harbor, Michigan 48320
(Address of principal executive offices) (Zip Code)

Registrant's telephone number, including area code **(248) 452-9866**

Not applicable
(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 of 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))

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (17 CFR §230.405) or Rule 12b-2 of the Securities Exchange Act of 1934 (17 CFR §240.12b-2). Emerging growth company [ ]

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 accounting standards provided pursuant to Section 13(a) of the Exchange Act. [ ]

Item 8.01 Other Events

As part of the terms and conditions of the Option and Collaboration Agreement ("Agreement") entered into on December 19, 2013, by and between ZIVO Bioscience, Inc. and a global animal health company (Collaborator), the Registrant is required to conduct a field study, with appropriate controls, to determine if the Registrant's bioactive compounds exhibit efficacy in addressing bovine mastitis, a common condition afflicting dairy cows that results in milk production losses, as well as analytics to isolate and characterize such bioactive compounds to the satisfaction of the collaborator.

If the terms and conditions of the Agreement are met and subsequent interactions with the Collaborator result in an approved study design and pathogen selection, the Collaborator can, after the field study is completed and 90-day investigation of test results has taken place, commence to evaluate and negotiate a potential option payment to the Registrant to continue licensing deliberations or to further investigate and research the bioactive compounds.

On or about September 6, 2017, the Registrant received final study design approval from Collaborator and officially commenced work on the field study contemplated by the Agreement, also notifying its research partner, Dairy Experts LLC, of same.

On September 11, 2017, the Registrant released a Press Release dated September 11, 2017, a copy of which is filed herewith as Exhibit 99.1.

Item 9.01 Financial Statements and Exhibits

Exhibit 99.1 – Press Release dated September 11, 2017.

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.

ZIVO BIOSCIENCE, INC.

Date: September 11, 2017

By: */s/ PHILIP M, RICE II*
Philip M. Rice, II,
Chief Financial Officer

Exhibit 99.1

ZIVO BIOSCIENCE, INC. KICKS OFF FINAL PHASE OF BOVINE MASTITIS STUDY

KEEGO HARBOR, MI – (September 11, 2017) – ZIVO Bioscience, Inc. (OTCMKTS:ZIVO) a biotech/agtech R&D company engaged in the commercialization of nutritional and medicinal products derived from proprietary algal strains, announces today that it has commenced work on the final, primary phase of its discovery-stage bovine mastitis efficacy study. This latest efficacy trial is the final phase of a multi-phased validation effort that commenced in mid-2014. ZIVO and a global animal health company entered into an option/collaboration agreement in December of 2013 to determine if the Company's bioactive compounds exhibit efficacy in addressing bovine mastitis, a common condition afflicting dairy cows that results in milk production losses, as well as analytics to isolate and characterize such bioactive compounds to the satisfaction of the collaborator.

Bovine mastitis is a global animal health issue affecting the world's 244 million dairy cows and is responsible for billions of dollars in milk production losses.

This latest validation phase is complex in structure and execution, requiring a pre-pilot for pathogen cultivation, as well as a pilot test for initial inoculation and dose ranging. Once the preparatory work is completed and results are accepted by the Company's collaborator, the balance of study moves forward to its conclusion. In addition to clinical observations, milk and blood samples, this final phase may include RNA extraction and gene expression analyses, which have the potential to create a significant trove of data to support the discovery-stage efficacy findings made by the Company.

About ZIVO Bioscience, Inc.

ZIVO Bioscience, Inc. (OTCQB: ZIVO) is a Michigan-based biotech company engaged in the investigation of the health and nutritional benefits of bioactive compounds derived from its proprietary algal cultures, and the development of natural bioactive compounds for use as dietary supplements and food ingredients, as well as biologically derived and synthetic candidates for medicinal and pharmaceutical applications in humans and animals, specifically focused on autoimmune and inflammatory response modulation.

Safe Harbor Statement

Except for any historical information, the matters discussed in this press release contain forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. These forward-looking statements involve risks and uncertainties. A number of factors could cause actual results to differ from those indicated in the forward-looking statements, including the timing of completion of a trial, actual future clinical trial results being different than the results the company has obtained to date, and the company's ability to secure funding. Such statements are subject to a number of assumptions, risks and uncertainties. Readers are cautioned that such statements are not guarantees of future performance and those actual results or developments may differ materially from those set forth in the forward-looking statements. The company undertakes no obligation to publicly update or revise forward-looking statements, whether as a result of new information or otherwise.

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