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): November 20, 2019

TONIX PHARMACEUTICALS HOLDING CORP. (Exact name of registrant as specified in its charter)

Nevada (State or Other Jurisdiction of Incorporation)

001-36019 (Commission File Number)

26-1434750 (IRS Employer Identification No.)

509 Madison Avenue, Suite 1608, New York, New York 10022 (Address of principal executive offices) (Zip Code)

 $\textbf{Registrant's telephone number, including area code:} \ (212)\ 980\text{-}9155$

| Check the appropriate box below if the Form 8-K filing is i General Instruction A.2. below): | ntended to simultaneously satisfy the filing obligation of | the registrant under any of the following provisions (see |
|--|--|---|
| ☐ Written communications pursuant to Rule 425 under the S☐ Soliciting material pursuant to Rule 14a-12 under the Exc☐ Pre-commencement communications pursuant to Rule 14d☐ Pre-commencement communications pursuant to Rule 13d | hange Act (17 CFR 240.14a-12) 1-2(b) under the Exchange Act (17 CFR 240.14d-2(b)) | |
| Indicate by check mark whether the registrant is an emerging the Securities Exchange Act of 1934 (§ 240.12b-2 of this chart | 1 , | Act of 1933 (§ 230.405 of this chapter) or Rule 12b-2 of |
| Emerging growth company □ | | |
| If an emerging growth company, indicate by check mark if taccounting standards provided pursuant to Section 13(a) of the standards provided pursuant to Section 13(b) to the standard pursuant to the standard p | e | n period for complying with any new or revised financial |
| 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 | TNXP | The NASDAQ Global Market |
| | | |

Item 8.01. Other Event.

On November 20, 2019, Tonix Pharmaceuticals Holding Corp. (the "Company") announced that the U. S. Food and Drug Administration provided guidance and feedback on the Company's development plans for TNX-102 SL* as a potential treatment for alcohol use disorder. On November 21, 2019, the Company announced that it has initiated the Phase 3 RELIEF study of TNX-102 SL for the management of fibromyalgia. Copies of the press releases discussing these matters are filed as Exhibits 99.01 and 99.02, and incorporated by reference in, this report.

*TNX-102 SL (cyclobenzaprine HCl sublingual tablets) is an investigational new drug and has not been approved for any indication.

Forward-Looking Statements

This Current Report on Form 8-K contains certain 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 and Private Securities Litigation Reform Act, as amended, including those relating to the Company's product development, clinical trials, clinical and regulatory timelines, market opportunity, competitive position, possible or assumed future results of operations, business strategies, potential growth opportunities and other statement that are predictive in nature. These forward-looking statements are based on current expectations, estimates, forecasts and projections about the industry and markets in which we operate and management's current beliefs and assumptions.

These statements may be identified by the use of forward-looking expressions, including, but not limited to, "expect," "anticipate," "intend," "plan," "believe," "estimate," "project," "should," "would" and similar expressions and the negatives of those terms. These statements relate to future events or our financial performance and involve known and unknown risks, uncertainties, and other factors which may cause actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. Such factors include those set forth in the Company's filings with the Securities and Exchange Commission. Prospective investors are cautioned not to place undue reliance on such forward-looking statements, which speak only as of the date of this press release. The Company undertakes no obligation to publicly update any forward-looking statement, whether as a result of new information, future events or otherwise

Item 9.01 Financial Statements and Exhibits.

| (d) | Exhibit | |
|-----|---------|---|
| | No. | Description. |
| | 99.01 | Press release of Tonix Pharmaceuticals Holding Corp., dated November 20, 2019 |
| | 99.02 | Press release of Tonix Pharmaceuticals Holding Corp., dated November 21, 2019 |
| | | |
| | | |

SIGNATURE

Pursuant to the requirement 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.

TONIX PHARMACEUTICALS HOLDING CORP.

Date: November 22, 2019

By:/s/ Bradley Saenger Bradley Saenger Chief Financial Officer

Tonix Pharmaceuticals Completes Pre-IND Meeting with FDA for TNX-102 SL as a Clinical Candidate for Alcohol Use Disorder

FDA Official Meeting Minutes Support Tonix's Plan to file an Investigational New Drug (IND) Application in the First Quarter of 2020 for a Phase 2 Proof-of-Concept Study

NEW YORK, November 20, 2019 (GLOBE NEWSWIRE) -- Tonix Pharmaceuticals Holding Corp. (Nasdaq: TNXP) (Tonix or the Company), a clinical-stage biopharmaceutical company, today announced it has received the official meeting minutes from a recent Type B pre-IND meeting with the U.S. Food and Drug Administration (FDA). The FDA provided guidance and feedback supportive of Tonix's clinical development plans for TNX-102 SL* as a potential treatment for alcohol use disorder (AUD). Based on this feedback, Tonix plans to submit an IND application in the first quarter of 2020 to support a Phase 2 proof-of-concept study.

"An estimated 36 million adults in the United States have AUD, a chronic relapsing brain disease characterized by compulsive alcohol use, loss of control over alcohol intake, and a negative emotional state when not using alcohol," said Gregory Sullivan, M.D., Chief Medical Officer of Tonix. "We believe that by improving sleep quality, the rate of successful recovery for people with AUD after detox can be improved."

Seth Lederman, M.D., President and Chief Executive Officer of Tonix, stated, "Subsequent to potentially receiving clearance for the IND application for AUD, Tonix expects to have four active IND's for its lead compound TNX-102 SL, including posttraumatic stress disorder (PTSD), fibromyalgia and agitation in Alzheimer's disease. TNX-102 SL is in Phase 3 development for PTSD, for which interim and topline results are expected next year, as well as for fibromyalgia. TNX-102 SL is Phase 2 ready as a treatment for agitation in Alzheimer's disease."

About Tonix Pharmaceuticals Holding Corp.

Tonix is a clinical-stage biopharmaceutical company focused on discovering and developing small molecules and biologics to treat psychiatric, pain and addiction conditions. Tonix's lead product candidate, TNX-102 SL, is in development for posttraumatic stress disorder (PTSD), fibromyalgia, agitation in Alzheimer's disease and alcohol use disorder (AUD). TNX-102 SL is in Phase 3 development as a bedtime treatment for PTSD (trade name Tonmya**) and fibromyalgia. The Phase 3 RECOVERY trial (P302) in PTSD is currently enrolling and results from an interim analysis are expected in the first quarter of 2020 and topline data are expected in the second quarter of 2020 if the sample size remains the same. The Company is planning the Phase 3 RELIEF trial (F304) in fibromyalgia. The agitation in Alzheimer's disease program is Phase 2 ready and the development for AUD is in the pre-Investigational New Drug (IND) application stage. Tonix is advancing two other PTSD therapeutic programs in the pre-IND stage, with different mechanisms than TNX-102 SL and designed for daytime dosing: TNX-601 CR (tianeptine oxalate) and TNX-1600 (a triple reuptake inhibitor). TNX-601 is in clinical formulation testing outside of the U.S and is expected to be IND-ready in 2020. Tonix's programs for treating addiction conditions also include TNX-1300*** (double-mutant cocaine esterase), which is in Phase 2 development for the treatment of cocaine intoxication. Tonix's preclinical pipeline includes TNX-1500 (anti-CD154), a monoclonal antibody being developed to prevent and treat organ transplant rejection and autoimmune conditions, and TNX-1700 (rTFF2), a biologic being developed to treat gastric and pancreatic cancers. Finally, TNX-801 (live virus vaccine for percutaneous [scarification] administration) to potentially prevent smallpox and TNX-701 (undisclosed small molecule) to prevent radiation effects are being advanced as medical countermeasures to improve biodefense.

- *TNX-102 SL (cyclobenzaprine HCl sublingual tablets) is an investigational new drug and has not been approved for any indication.
- **Tonmya has been conditionally accepted by the U.S. Food and Drug Administration (FDA) as the proposed trade name for TNX-102 SL for the treatment of PTSD.
- ***TNX-1300 (T172R/G173Q double-mutant cocaine esterase 200 mg, i.v. solution) is an investigational new biologic and has not been approved for any indication.

This press release and further information about Tonix can be found atwww.tonixpharma.com.

Forward-Looking Statements

Certain statements in this press release are forward-looking within the meaning of the Private Securities Litigation Reform Act of 1995. These statements may be identified by the use of forward-looking words such as "anticipate," "believe," "forecast," "estimate," "expect," and "intend," among others. These forward-looking statements are based on Tonix's current expectations and actual results could differ materially. There are a number of factors that could cause actual events to differ materially from those indicated by such forward-looking statements. These factors include, but are not limited to, risks related to failure to obtain FDA clearances or approvals and noncompliance with FDA regulations; risks related to the timing and progress of clinical development of our product candidates; our need for additional financing; uncertainties of patent protection and litigation; uncertainties of government or third party payor reimbursement; limited research and development efforts and dependence upon third parties; and substantial competition. As with any pharmaceutical under development, there are significant risks in the development, regulatory approval and commercialization of new products. Investors should read the risk factors set forth in the Annual Report on Form 10-K for the year ended December 31, 2018, as filed with the Securities and Exchange Commission (the "SEC") on March 18, 2019, and periodic reports on Form 10-Q filed with the SEC on or after the date thereof. Tonix does not undertake any obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by law.

Contacts

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Tonix Pharmaceuticals Announces Initiation of the Phase 3 RELIEF Study of TNX-102 SL for the Management of Fibromyalgia

First Patient Expected to be Dosed Before Year-End 2019

NEW YORK, November 21, 2019 (GLOBE NEWSWIRE) -- Tonix Pharmaceuticals Holding Corp. (Nasdaq: TNXP) (Tonix or the Company), a clinical-stage biopharmaceutical company, today announced that, having successfully closed an underwritten public equity offering for \$9.0 million, it has initiated the Phase 3 RELIEF study (TNX-CY-F304). RELIEF is a potential pivotal study of TNX-102 SL* (cyclobenzaprine HCl sublingual tablets), a non-opioid, centrally-acting analgesic taken daily at bedtime, for the management of fibromyalgia.

"We are in the process of activating approximately 40 U.S. sites to start enrolling patients, and we expect to dose the first patient by year end 2019." said Seth Lederman, M.D., President and Chief Executive Officer. "Initiating a new Phase 3 trial for TNX-102 SL in fibromyalgia is an important milestone for Tonix, physicians, and most importantly for the estimated 9 million U.S. adults suffering from this chronic, frequently debilitating central pain condition. Dr. Lederman continued, "Approximately one-third of those diagnosed with fibromyalgia in the U.S. are reported to receive chronic prescription opiates, which is part of the opiate crisis, since opiates are not believed to be effective for central pain. TNX-102 SL is a potential new, non-opioid, non-addictive analgesic that has been shown to have activity at a syndromal level, improving a broad array of fibromyalgia symptoms in prior Phase 2 and Phase 3 studies at the 2.8 mg dose."

In a March 2019 Clinical Guidance meeting with the U.S. Food and Drug Administration (FDA), Tonix received guidance from the FDA to advance the development of TNX-102 SL 5.6 mg for the management of fibromyalgia. The Phase 3 study design features were discussed and agreed upon to test the safety and efficacy of TNX-102 SL at a dosage of 5.6 mg in a pivotal study to support the fibromyalgia indication with targeted enrollment of approximately 470 patients.

A lower dose of TNX-102 SL (2.8 mg) taken daily at bedtime was studied previously in fibromyalgia in a Phase 2 study and a Phase 3 study. In both studies, the 2.8 mg dose missed the primary endpoint of reduction in daily pain at Week 12. However, both studies showed broad clinical activity, evidenced by reduction of daily pain by other standard analytic approaches (30% responder analysis and mean pain, respectively) and improvements on the Fibromyalgia Impact Questionnaire – Revised, Patient Global Impression of Change, and measures of sleep quality. In Tonix's posttraumatic stress disorder (PTSD) program, TNX-102 SL 5.6 mg (2 x 2.8 mg tablets) demonstrated acceptable tolerability in PTSD patients. Furthermore TNX-102 SL 5.6 mg showed activity in reducing pain in PTSD patients with baseline chronic pain. In the clinical studies of TNX-102 SL in both the PTSD and fibromyalgia program, there were no serious and unexpected adverse events reported at the 2.8 mg or 5.6 mg doses; the most common adverse events were primarily related to local administration site reactions, such as transient oral hypoaesthesia (numbness) or paresthesia (tingling) or abnormal product taste after dosing.

Supported by the previous safety and efficacy findings of TNX-102 SL in fibromyalgia and PTSD, Tonix believes that increasing the dose of TNX-102 SL from the 2.8 mg to 5.6 mg in the new RELIEF Phase 3 fibromyalgia study has the potential to provide clinical evidence to support the efficacy and safety of TNX-102 SL for the management of fibromyalgia. The registration of TNX-102 SL 5.6 mg for the fibromyalgia indication will be supported by the long-term safety exposure data from the PTSD program.

About the Phase 3 RELIEF Study

The RELIEF study is a double-blind, randomized, placebo-controlled trial designed to evaluate the efficacy and safety of TNX-102 SL (cyclobenzaprine HCl sublingual tablets). The two-arm, adaptive design trial is expected to enroll approximately 470 patients across approximately 40 U.S. sites. For the first two weeks of treatment, there will be a run-in period in which patients will start on TNX-102 SL 2.8 mg (1 tablet) or placebo. After the first two weeks, all patients will have the dose increased to TNX-102 SL 5.6 mg (2 x 2.8 mg tablets) or two placebo tablets for 12 weeks. The primary endpoint is daily diary pain severity score change (TNX-102 SL 5.6 mg vs. placebo) from baseline (using the weekly averages of the daily numerical rating scale scores), analyzed by mixed model repeated measures with multiple imputation.

The RELIEF study is expected to have one unblinded interim analysis when the study has results from approximately the first 50% of efficacy-evaluable patients, pending agreement with the FDA. Additional details about the RELIEF study are available at www.theRELIEFstudy.com.

About Fibromyalgia

Fibromyalgia is a chronic pain disorder that is thought to result from amplified sensory and pain signaling. Fibromyalgia afflicts an estimated 6-12 million adults in the U.S, and physicians and patients report widespread dissatisfaction with currently marketed products. Common symptoms of fibromyalgia include chronic widespread pain, nonrestorative sleep, fatigue, and morning stiffness. Other associated symptoms include cognitive dysfunction and mood disturbances, including anxiety and depression. Individuals suffering from fibromyalgia struggle with their daily activities, have impaired quality of life, and frequently are disabled.

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