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): June 21, 2021

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.)

26 Main Street, Chatham, New Jersey 07928 (Address of principal executive offices) (Zip Code)

Registrant's telephone number, including area code: (862) 904-8182

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 th □ Soliciting material pursuant to Rule 14a-12 under the I □ Pre-commencement communications pursuant to Rule □ Pre-commencement communications pursuant to Rule 	Exchange Act (17 CFR 240.14a-12) 14d-2(b) under the Exchange Act (17 CFR	
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
the Securities Exchange Act of 1934 (§ 240.12b-2 of this of Emerging growth company □	chapter). if the registrant has elected not to use the e	5 of the Securities Act of 1933 (§ 230.405 of this chapter) or Rule 12b-2 of extended transition period for complying with any new or revised financial

Item 7.01 Regulation FD Disclosure.

On June 21, 2021, Tonix Pharmaceuticals Holding Corp. (the "Company") issued a press release announcing that it plans to develop TNX-102 SL (cyclobenzaprine HCl sublingual tablets) as a potential treatment for Long COVID Syndrome (Long COVID), or Post-Acute Sequelae of COVID-19 (PASC1). A copy of the press release is furnished as Exhibit 99.01 hereto and incorporated herein by reference.

The information in this Item 7.01 of this Current Report on Form 8-K, including Exhibit 99.01 attached hereto, shall not be deemed "filed" for purposes of Section 18 of the United States Securities Exchange Act of 1934 (the "Exchange Act") or otherwise subject to the liabilities of that section, nor shall they be deemed incorporated by reference in any filing under the United States Securities Act of 1933 or the Exchange Act, except as shall be expressly set forth by specific reference in such a filing.

Item 8.01. Other Events.

On June 21, 2021, the Company announced that it plans to develop TNX-102 SL for the treatment of Long COVID. The Company plans to meet with the U.S. Food and Drug Administration in the third quarter of 2021 to seek agreement on the design of a potential Phase 2 pivotal study and the overall clinical development plan to qualify TNX-102 SL as an indicated treatment for Long COVID. The Company believes that the core symptoms of Long COVID, including fatigue, sleep disturbances, and persistent pain, share an underlying pathogenesis with fibromyalgia. TNX-102 is currently in development as a treatment for fibromyalgia. By improving sleep quality, the Company believes that TNX-102 SL may improve the sleep disturbance of Long COVID and potentially also improve other symptoms of Long COVID. As disturbed sleep is linked to exacerbation and chronicity of a number of pain, neuropsychiatric and addictive disorders, the Company plans to conduct clinical trials to determine whether TNX-102 SL improves sleep in certain pain and neuropsychiatric disorders in addition to fibromyalgia.

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 development of TNX-601 CR, 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," "potential," "predict," "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 SEC. 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.

(d)	Exhibit No.	Description.	
_	99.01	Press release of the Company, dated June 21, 2021	
		OVCIVI TIVING	
		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 the	ereunto

Date: June 21, 2021 By: /s/ Bradley Saenger

Item 9.01

duly authorized.

Financial Statements and Exhibits.

Bradley Saenger Chief Financial Officer

TONIX PHARMACEUTICALS HOLDING CORP.

Tonix Pharmaceuticals Announces Program to Develop TNX-102 SL for the Treatment of Long COVID Syndrome, also Known as Post-Acute Sequelae of COVID-19 (PASC)

Long COVID Symptoms of Pain, Sleep Disturbance, Fatigue and Brain Fog Overlap with Symptoms of Fibromyalgia, for which TNX-102 SL is in Mid-Phase 3 Development

> Condition Afflicts More Than 30 Percent of Patients Post Infection with SARS-CoV-2, the Virus that Causes COVID-19

> > Pre-IND Meeting with FDA Scheduled for Q3 2021

CHATHAM, N.J., June 21, 2021 – Tonix Pharmaceuticals Holding Corp. (Nasdaq: TNXP) (Tonix or the Company), a clinical-stage biopharmaceutical company, today announced it plans to develop TNX-102 SL (cyclobenzaprine HCl sublingual tablets) as a potential treatment for Long COVID Syndrome (Long COVID) which is now known officially as Post-Acute Sequelae of COVID-19 (PASt). Tonix plans to meet with the U.S. Food and Drug Administration (FDA) in the third quarter of 2021 to seek agreement on the design of a potential Phase 2 pivotal study and the overall clinical development plan to qualify TNX-102 SL as an indicated treatment for Long COVID.

Although most people recover from COVID-19 within weeks of the acute illness, a substantial portion develop a chronic syndrome called Long COVID, or PASC. These individuals experience a constellation of symptoms long past the time of recovery from acute COVID-19. Most Long COVID patients who have been studied appear to have cleared the SARS-CoV-2 virus from their systems. The symptoms of Long COVID can include fatigue, sleep disorders, pain, fevers, shortness of breath, cognitive impairment described as "brain fog", gastrointestinal symptoms, anxiety, and depression. Long COVID can persist for months and can range in severity from mild to incapacitating. Several cohort studies have reported that persistence of symptoms following SARS-CoV-2 infection occurs in more than 30% of patients.² While typically associated with moderate or severe COVID-19, Long COVID can occur after mild COVID-19 or even after asymptomatic SARS-CoV-2 infection.

Seth Lederman, M.D., President and Chief Executive Officer of Tonix, stated, "We are excited to begin development of TNX-102 SL for the treatment of Long COVID because the program leverages what we have learned about the pharmacodynamic activity of TNX-102 SL from more than one thousand participants who have been or are enrolled in our fibromyalgia trials to date. Long COVID has been compared to fibromyalgia because of the common symptoms of sleep disturbance, persistent pain, fatigue, and brain fog.³ Additionally, Long COVID, like fibromyalgia, is experienced by women at a rate approximately four times that of men.⁴ The 2003 SARS outbreak that was due to an earlier coronavirus outbreak was also described as causing a post-SARS syndrome similar to fibromyalgia.⁵ Long COVID is a chronic disabling condition that is expected to result in a significant global economic burde⁶h. In response to the urgent need for therapies that address PASC, Congress awarded \$1.15 billion to the National Institutes of Health to study Long COVID last December.⁷ While the vaccines available in the U.S. under Emergency Use Authorization have been shown to prevent acute COVID, their ability to prevent Long COVID is unknown. There is currently no approved drug for the treatment of PASC."

Gregory Sullivan, M.D., Chief Medical Officer of Tonix, commented, "We believe the core symptoms of Long COVID, including fatigue, sleep disturbances, and persistent pain, share an underlying pathogenesis with fibromyalgia. By improving sleep quality, we believe TNX-102 SL may improve the sleep disturbance of Long COVID and potentially also improve other symptoms of Long COVID. For example, TNX-102 SL

showed activity in addressing persistent pain, sleep disturbance and fatigue in our fibromyalgia Phase 3 study. In our double-blind clinical studies for both fibromyalgia and posttraumatic stress disorder (PTSD), TNX-102 SL showed robust activity in improving sleep quality starting within the first two weeks of treatment."

Dr. Lederman added, "TNX-102 SL is in mid-Phase 3 development for the treatment of fibromyalgia, for which interim analysis results of the second potential pivotal study are expected in the third quarter of 2021, and topline results are expected in the first quarter of 2022. The proposed mechanism of TNX-102 SL is to improve sleep quality. Since disturbed sleep is linked to exacerbation and chronicity of a number of pain, neuropsychiatric and addictive disorders, we plan to conduct clinical trials to determine whether TNX-102 SL improves sleep in certain pain and neuropsychiatric disorders in addition to fibromyalgia. Tonix already has four active INDs for TNX-102 SL, including fibromyalgia, PTSD, agitation in Alzheimer's disease (AAD) and alcohol use disorder (AUD)."

¹Feb. 24, 2021 - White House COVID-19 Response Team press briefing; Feb 25, 2021 - policy brief from the World Health Organization on long COVID

²Nalbandian, Ani, et al. "Post-acute COVID-19 syndrome." Nature Medicine (2021): 1-15.

³Clauw DJ, Häuser W, Cohen SP, Fitzcharles M-A. Considering the potential for an increase in chronic pain after the COVID-19 pandemic. Pain2020 Aug; 161(8): 1694–1697.

About Long COVID or Post-Acute Sequelae of SARS-CoV-2 (PASC)

Long COVID is a protracted syndrome experienced by some people following SARS-CoV-2 infection, that can include a number of persistent symptoms including fatigue, pain, sleep disturbance, brain fog or difficulty concentrating, arthralgias, olfactory dysfunction, and headache. Patients with Long COVID are sometimes referred to as "long-haulers."

About TNX-102 SL

TNX-102 SL is a patented sublingual tablet formulation of cyclobenzaprine hydrochloride which provides rapid transmucosal absorption and reduced production of a long half-life active metabolite, norcyclobenzaprine, due to bypass of first-pass hepatic metabolism. As a multifunctional agent with

potent binding and antagonist activities at the serotonin_{2A}, α_1 -adrenergic, histaminergic-H₁, and muscarinic-M₁ receptors, TNX-102 SL is in clinical development as a daily bedtime treatment for fibromyalgia, PTSD, alcohol use disorder and agitation in Alzheimer's disease. The U.S. Patent and Trademark Office (USPTO) has issued United States Patent No. 9636408 in May 2017, Patent No. 9956188 in May 2018, Patent No. 10117936 in November 2018, Patent No. 10,357,465 in July 2019, and Patent No. 10736859 in August 2020. The Protectic™ protective eutectic and Angstro-Technology™ formulation claimed in these patents are important elements of Tonix's proprietary TNX-102 SL composition. These patents are expected to provide TNX-102 SL, upon NDA approval, with U.S. market exclusivity until 2034/2035.

Tonix Pharmaceuticals Holding Corp.

Tonix is a clinical-stage biopharmaceutical company focused on discovering, licensing, acquiring and developing small molecules and biologics to treat and prevent human disease and alleviate suffering. Tonix's portfolio is primarily composed of central nervous system (CNS) and immunology product candidates. The Company's CNS portfolio includes both small molecules and biologics to treat pain, neurologic, psychiatric and addiction conditions. Tonix's lead CNS candidate, TNX-102 St¹, is in mid-Phase 3 development for the management of fibromyalgia, with positive data from the Phase 3 RELIEF study reported in December 2020. The Company expects interim data from the second Phase 3 study, RALLY, in the third quarter of 2021 and topline data in the first quarter of 2022. Tonix's immunology portfolio includes vaccines to prevent infectious diseases and biologics to address immunosuppression, cancer, and autoimmune diseases. Tonix's lead vaccine candidate, TNX-1800², is a live replicating vaccine based on the horsepox viral vector platform to protect against COVID-19, primarily by eliciting a T cell response. Tonix reported positive efficacy data from animal studies of TNX-1800 in the first quarter of 2021. TNX-801², live horsepox virus vaccine for percutaneous administration, is in development to protect against smallpox and monkeypox.

This press release and further information about Tonix can be found at www.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; delays and uncertainties caused by the global COVID-19 pandemic; 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. Tonix does not undertake an obligation to update or

⁴Cox, D. "Why are women more prone to long Covid?" The Guardian.13 Jun 2021 https://www.theguardian.com/society/2021/jun/13/why-are-women-more-prone-to-long-covid

⁵Moldofsky H, Patcai J. Chronic widespread musculoskeletal pain, fatigue, depression and disordered sleep in chronic post-SARS syndrome; a case-controlled study. BMC Neurol 2011;11:37.

⁶Briggs, Andrew, and Anna Vassall. "Count the cost of disability caused by COVID-19." (2021): 502-505.

⁷The NIH provision of Title III Health and Human Services, Division M--Coronavirus Response and Relief Supplemental Appropriations Act, 2021, of H.R. 133, The Consolidated Appropriations Act of 2021. The bill was enacted into law on 27 December 2020, becoming Public Law 116-260.

 $^{^{1}}$ TNX-102 SL is an investigational new drug and has not been approved for any indication.

 $^{^2}$ TNX-1800 and TNX-801 are investigational new biologics and have not been approved for any indication.

31, 2020, as filed with the Securities and Exchange Commission (the "SEC") on March 15, 2021, and periodic reports filed with the SEC on or after the date thereof. All Tonix's forward-looking statements are expressly qualified by all such risk factors and other cautionary statements. The information set forth herein speaks only as of the date thereof.

Contacts

Jessica Morris (corporate)
Tonix Pharmaceuticals
investor.relations@tonixpharma.com
(862) 904-8182

Olipriya Das, Ph.D. (media) Russo Partners Olipriya.Das@russopartnersllc.com (646) 942-5588

Peter Vozzo (investors) Westwicke/ICR peter.vozzo@ westwicke.com (443) 213-0505