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 4, 2024

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)

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

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

General Instruction A.2. below):		
	,	
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 Capital Market
the Securities Exchange Act of 1934 (§ 240.12) Emerging growth company		15 of the Securities Act of 1933 (§ 230.405 of this chapter) or Rule 12b-2 of
If an emerging growth company, indicate by chaccounting standards provided pursuant to Sect		stended transition period for complying with any new or revised financial

Item 7.01 Regulation FD Disclosure.

On November 4, 2024, Tonix Pharmaceuticals Holding Corp. (the "Company") announced a research partnership with the Kenya Medical Research Institute ("KEMRI") to design and conduct a Phase I clinical trial of the Company's TNX-801 vaccine candidate for the prevention of mpox. A copy of the press release which discusses this matter is furnished hereto as Exhibit 99.01, 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 November 4, 2024, the Company announced a research partnership with KEMRI to design, plan and seek regulatory approval for a Phase I clinical trial in Kenya to test the safety, tolerability, and immunogenicity of TNX-801 as a vaccine to prevent mpox and smallpox. The Company will sponsor the trial and KEMRI will lead its execution

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," "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.

Item 9.01 Financial Statements and Exhibits.

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 4, 2024 By: /s/ Bradley Saen

/s/ Bradley Saenger Bradley Saenger Chief Financial Officer

Tonix Pharmaceuticals Announces Research Agreement with Kenya Medical Research Institute (KEMRI) to Design, Plan and Seek Regulatory Approval for a Phase I Clinical Study of TNX-801 for Mpox in Kenya

Proposed clinical study in Kenya intended to test the safety, tolerability, and immunogenicity of TNX-801, a vaccine being developed to prevent mpox (formerly called monkeypox)

The World Health Organization (WHO) declared mpox a public health emergency of international concern (PHEIC) ¹⁻⁴: cases of the new Clade Ib mpox detected in Sweden, Thailand, Singapore, India, Germany and England

In preclinical data, TNX-801, Tonix's attenuated live-virus vaccine candidate, demonstrated efficacy as a vaccination against mpox in animal models

CHATHAM, N.J., November 4, 2024 (GLOBE NEWSWIRE) – Tonix Pharmaceuticals Holding Corp. (Nasdaq: TNXP) (Tonix or the Company), a fully-integrated biopharmaceutical company with marketed products and a pipeline of development candidates, today announced that it has entered into a sponsored research agreement with the Kenya Medical Research Institute (KEMRI) to design, plan and seek regulatory approval for a Phase I clinical study in Kenya to test the safety, tolerability, and immunogenicity of TNX-801 (horsepox, live virus) as a vaccine to prevent mpox and smallpox. Tonix will be the sponsor and KEMRI will lead the execution of the proposed clinical trial.

"We are excited to advance development of TNX-801 under this research agreement with KEMRI," said Seth Lederman, M.D., Chief Executive Officer of Tonix Pharmaceuticals. "There is an urgent need for the worldwide availability of a single dose mpox vaccine with durable protection. TNX-801 has demonstrated encouraging preclinical data and was recently shown to align with the World Health Organization's (WHO's) newly issued preferred target product profile (TPP) for mpox vaccines. Further, TNX-801 can be scaled up for manufacturing, distribution and storage without a costly supply chain. We believe TNX-801 has the potential to address and help interrupt the spread of mpox worldwide."

In September 2024, Tonix announced that the preferred target product profile (TPP), released at the WHO sponsored Mpox Research and Innovation Scientific Conference, aligns with the potential characteristics of TNX-801. Key elements of the WHO draft TPP include single-dose, durable protection, administration without special equipment, and stability at ambient temperature. Other potential beneficial characteristics include the ability to limit forward transmission, use in case-contact vaccination strategies and suitability for use in immunocompromised individuals.

In August 2024, Tonix announced a collaboration with Bilthoven Biologics (Bbio) to develop GMP manufacturing processes for TNX-801. Bbio is part of the world's largest vaccine manufacturer, the Cyrus Poonawalla Group, which also includes the Serum Institute of India.

About TNX-801*

TNX-801 is a live minimally-replicating attenuated horsepox vaccine that is believed to provide immune protection against mpox in animals with better tolerability than 20th century vaccinia viruses. Vaccinia vaccines from the 20th century are descendants of Edward Jenner's circa 1800 that have become more virulent in connection with losing regulatory elements in their genomes. Given the modern understanding that Jenner's circa 1800 vaccine would be called "horsepox" today, TNX-801 was designed to be similar to Jenner's vaccine. After a single dose vaccination, TNX-801 protected animals against lethal challenge with intratracheal Clade Ia monkeypox virus. In this experiment, TNX-801 vaccination prevented clinical disease and skin lesions and also decreased shedding in the mouth and lungs. The findings are consistent with mucosal immunity and suggest the ability to block forward transmission. In addition, TNX-801 has decreased virulence in immunocompromised animals relative to 20th Century vaccinia viruses. Based on animal studies, TNX-801 combines immune protection with improved tolerability compared to live-virus vaccinia vaccines. TNX-801 is administered with a single dose which has advantages over two-dose regimens. The focus on single-dose vaccines confirms early recommendations by the Bipartisan Commission on Biodefense, and the U.S. National Academies of Science. TNX-1800 is an engineered version of horsepox that expresses the spike protein of SARS-CoV-2. Shational Institutes of Health (NIH) selected Tonix's COVID-19 vaccine, TNX-1800 for Project NextGen.

About Mpox*

On August 14, 2024, the WHO determined that the upsurge of mpox in a growing number of countries in Africa constitutes a PHEIC, the second such declaration in the past two years called in response to an mpox outbreak. The current outbreak is caused by Clade Ib monkeypox virus while the 2022 outbreak was caused by Clade IIb monkeypox virus. The 2022 global mpox outbreak, which is ongoing, has affected over 90,000 persons in countries where mpox had previously not been endemic, including Europe and the US. The rapid spread of Clade IIb strain mpox in 2022 underscores the pandemic potential of mpox. Unlike Clade IIb mpox, the Clade Ib strain of mpox appears to be spreading in Africa, particularly those neighboring the Democratic Republic of the Congo, including Burundi, Rwanda, and Uganda, but now affecting 16 countries. According to the U.S. Centers for Disease Control and Prevention (CDC), and other experts, there is a significant risk that the Clade Ib monkeypox may appear in the U.S. 2,3

Tonix Pharmaceuticals Holding Corp.*

Tonix is a fully integrated biopharmaceutical company focused on transforming therapies for pain management and modernizing solutions for public health challenges. Tonix's development portfolio is focused on central nervous system (CNS) disorders, and its priority is to progress TNX-102 SL, a product candidate for which an NDA was submitted based on two statistically significant Phase 3 studies for the management of fibromyalgia. The FDA has granted Fast Track designation to TNX-102 SL for the management of fibromyalgia. TNX-102 SL is also being developed to treat acute stress

reaction and acute stress disorder under a Physician-Initiated IND at the University of North Carolina in the OASIS study funded by the U.S. Department of Defense (DoD). Tonix's CNS portfolio includes TNX-1300 (cocaine esterase), a biologic in Phase 2 development designed to treat cocaine intoxication that has FDA Breakthrough Therapy designation and its development is supported by a grant from the U.S. National Institude of Drug Abuse and Addiction. Tonix's immunology development portfolio consists of biologics to address organ transplant rejection, autoimmunity and cancer, including TNX-1500, which is an Fc-modified humanized monoclonal antibody targeting CD40-ligand (CD40L or CD154) being developed for the prevention of allograft rejection and for the treatment of autoimmune diseases. Tonix also has product candidates in development in the areas of rare disease, including TNX-2900 for Prader-Willi syndrome, and infectious disease, including a vaccine for mpox, TNX-801. Tonix has a contract with the U.S. DoD's Defense Threat Reduction Agency (DTRA) for up to \$34 million over five years to develop TNX-4200, small molecule broad-spectrum antiviral agents targeting CD45 for the prevention or treatment of infections to improve the medical readiness of military personnel in biological threat environments. Tonix owns and operates a state-of-the art infectious disease research facility in Frederick, MD. Tonix Medicines, our commercial subsidiary, markets Zembrace® SymTouch® (sumatriptan injection) 3 mg and Tosymra® (sumatriptan nasal spray) 10 mg for the treatment of acute migraine with or without aura in adults.

* Tonix's product development candidates are investigational new drugs or biologics; their efficacy and safety have not been established and have not been approved for any indication.

Zembrace SymTouch and Tosymra are registered trademarks of Tonix Medicines. All other marks are property of their respective owners.

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

¹WHO Press Release August 14, 2024. "WHO Director-General declares mpox outbrfeak a public health emergency of international concern". URL: <a href="https://www.who.int/news/item/14-08-2024-who-director-general-declares-mpox-outbreak-a-public-health-emergency-of-international-concern (accessed 8-15-24)

²McQuiston JH, et al. *U.S. Preparedness and Response to Increasing Clade I Mpox Cases in the Democratic Republic of the Congo* . 2024, MMWR Morbi Mortal Wkly Rep: United States. p. 435-440

³CDC. 2022-2023 Mpox: US Map and Case Count. https://www.cdc.gov/poxvirus/mpox/response/2022/us-map.html

⁴World Health Organization SAGE meeting highlights on updated mpox vaccine recommendations. 2024, March

⁵Noyce RS, et al. *Viruses*. 2023 Jan 26;15(2):356. Doi: 10.3390/v15020356. PMID: 36851570; PMCID: PMC9965234

⁶Trefry, SV et al. bioRxiv 2023.10.25.564033; doi: https://doi.org/10.1101/2023.10.25.564033

⁷Bipartisan Commission on Biodefense. Box the Pox: Reducing the risk of Smallpox and Other Ortho poxviruses, Washington:2024

⁸U.S. National Academies of Science. Future State of Smallpox Medical Countermeasures. Washington:2024

⁹Awasthi M, et al. *Viruses*. 2023 Oct 21;15(10):2131. Doi: 10.3390/v15102131. PMID: 37896908; PMCID: PMC10612059.

¹⁰Awasthi M et al *Vaccines* (Basel). 2023 Nov 2;11(11):1682. Doi: 10.3390/vaccines11111682.PMID: 38006014

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 Toni'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 the failure to obtain FDA clearances or approvals and noncompliance with FDA regulations; risks related to the failure to successfully market any of our products; 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 revise any forward-looking statement. Investors should read the risk factors set forth in the Annual Report on Form 10-K for the year ended December 31, 2023, as filed with the Securities and Exchange Commission (the "SEC") on April 1, 2024, and periodic reports filed with the SEC on or after the date thereof. All of Toni'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.

Investor Contact

Jessica Morris Tonix Pharmaceuticals <u>investor.relations@tonixpharma.com</u> (862) 904-8182

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

Media Contact

Ray Jordan Putnam Insights ray@putnaminsights.com (949) 245-5432