

OMB Number:	3235-0287
Estimated average burden hours per response:	0.5

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Check this box to indicate that a transaction was made pursuant to a contract, instruction or written plan for the purchase or sale of equity securities of the issuer that is intended to satisfy the affirmative defense conditions of Rule 10b5-1(c). See Instruction 10.

1. Name and Address of Reporting Person * <u>LEDERMAN SETH</u> _____ (Last) (First) (Middle) <u>C/O TONIX PHARMACEUTICALS HOLDING CORP</u> <u>26 MAIN STREET, SUITE 101</u> _____ (Street) <u>CHATHAM NJ 07928</u> _____ (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>Tonix Pharmaceuticals Holding Corp. [TNXP]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <p style="text-align: center;">Chief Executive Officer</p>
	3. Date of Earliest Transaction (Month/Day/Year) <u>02/05/2025</u>	
	4. If Amendment, Date of Original Filed (Month/Day/Year)	

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock, \$0.001 par value								5	D	
Common Stock, \$0.001 par value								1	I	By IRA Account
Common Stock, \$0.001 par value								1	I	Lederman & Co. (1)
Common Stock, \$0.001 par value	02/05/2025		J(2)		5.18	D	\$3.38	5	D	
Common Stock, \$0.001 par value	02/05/2025		J(2)		0.22	D	\$3.3	1	I	By IRA Account
Common Stock, \$0.001 par value	02/05/2025		J(2)		1	D	\$0.15	0	I	By Spouse

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	V	(A)	(D)	Date Exercisable	Expiration Date						Title
Stock Option	\$8.05	02/25/2025		A		123,958		02/25/2026(3)	02/25/2035	Common Stock	123,958	\$0.00(4)	123,958	D	
Stock Option	\$10.0625	02/25/2025		A		123,958		02/25/2026(3)	02/25/2035	Common Stock	123,958	\$0.00(4)	123,958	D	

Explanation of Responses:

- Reporting person may be deemed to be a control person of this entity.
- Involuntary sale of fractional share following a reverse stock split of the Issuer's common stock.
- One-third of the option vests on the first anniversary of issuance and 1/36th each month thereafter for 24 months.
- The option was granted pursuant to the Issuer's Amended and Restated 2020 Stock Incentive Plan.

/s/ Seth Lederman 02/27/2025
 ** Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

* If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.