

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

OMB APPROVAL
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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

(Print or Type Responses)

1. Name and Address of Reporting Person * LEDERMAN SETH (Last) (First) (Middle) C/O TONIX PHARMACEUTICALS HOLDING CORP, 509 MADISON AVE., SUITE 306 (Street) NEW YORK, NY 10022 (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol Tonix Pharmaceuticals Holding Corp. [TNXP] 3. Date of Earliest Transaction (Month/Day/Year) 11/21/2016 4. If Amendment, Date Original Filed(Month/Day/Year)	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below) Chief Executive Officer 6. Individual or Joint/Group Filing(Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person
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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	11/21/2016		P		98,000	A	\$ 0.4278 <u>(1)</u>	133,000	I	By 401(k) plan
Common Stock, \$0.001 par value								79,111	D	
Common Stock, \$0.001 par value								31,000	I	By spouse
Common Stock, \$0.001 par value								29,167	I	By Leder Laboratories, Inc. <u>(2)</u>
Common Stock, \$0.001 par value								29,167	I	By Starling Pharmaceuticals, Inc. <u>(2)</u>
Common Stock, \$0.001 par value								184,628	I	By Lederman & Co., LLC <u>(2)</u>
Common Stock, \$0.001 par value								32,457	I	By L&L Technologies, LLC <u>(2)</u>
Common Stock, \$0.001 par value								58,972	I	By Targent Pharmaceuticals, LLC <u>(2)</u>

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

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 control number. SEC 1474 (9-02)

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 Underlying Securities (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 of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V		Date Exercisable	Expiration Date					

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
LEDERMAN SETH C/O TONIX PHARMACEUTICALS HOLDING CORP 509 MADISON AVE., SUITE 306 NEW YORK, NY 10022	X		Chief Executive Officer	

Signatures

/s/ Jessica Morris, Attorney-in-Fact		11/22/2016
<small>**Signature of Reporting Person</small>		<small>Date</small>

Explanation of Responses:

* 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).

The common stock was purchased by the reporting person in open market transactions on the transaction date, with a volume weighted average purchase price of (1) \$0.427821. The range of purchase prices on the transaction date was \$0.4191 to \$0.4299 per share. The reporting person undertakes to provide, upon request by the SEC staff, the issuer, or a security holder of the issuer, full information regarding the number of shares purchased at each price.

(2) Reporting person may be deemed to be a control person of this entity.

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

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