

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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).

1. Name and Address of Reporting Person* <u>Stamler David A</u> <hr/> <div> <div>(Last)</div> <div>(First)</div> <div>(Middle)</div> </div> <u>3333 N. TORREY PINES COURT</u> <u>SUITE 400</u> <hr/> <div> <div>(Street)</div> <div>LA JOLLA</div> <div>CA</div> <div>92037</div> </div> <hr/> <div> <div>(City)</div> <div>(State)</div> <div>(Zip)</div> </div>	2. Issuer Name and Ticker or Trading Symbol <u>Auspex Pharmaceuticals, Inc.</u> [<u>ASPX</u>]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <div> <div>Director</div> <div>10% Owner</div> </div> <div> <div>X</div> <div>Officer (give title below)</div> <div>Other (specify below)</div> </div> <div> <div>Chief Medical Officer</div> </div>
	3. Date of Earliest Transaction (Month/Day/Year) <u>03/16/2015</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	03/16/2015		M		3,000	A	\$0.9	3,983	D	
Common Stock	03/16/2015		S ⁽¹⁾		400	D	\$79.549 ⁽²⁾	3,583	D	
Common Stock	03/16/2015		S ⁽¹⁾		2,600	D	\$80.075 ⁽³⁾	983	D	

**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. Ownership of Beneficially Owned Securities (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Stock Option (right to buy)	\$0.9	03/16/2015		M			3,000	(4)	03/10/2021	Common Stock	3,000	\$0.00	25,274	D	

Explanation of Responses:

- The sale reported on this Form 4 was effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on September 23, 2014.
- This transaction was executed in multiple trades at prices ranging from a low of \$79.14 to a high of \$79.78. The price reported above reflects the weighted average purchase price. The reporting person hereby undertakes to provide upon request to the SEC staff, the issuer or a security holder of the issuer full information regarding the number of shares and prices at which the transaction was effected.
- This transaction was executed in multiple trades at prices ranging from a low of \$79.98 to a high of \$80.25. The price reported above reflects the weighted average purchase price. The reporting person hereby undertakes to provide upon request to the SEC staff, the issuer or a security holder of the issuer full information regarding the number of shares and prices at which the transaction was effected.
- The original option grant to purchase 30,934 shares of common stock was subject to monthly vesting over a four-year period beginning on February 15, 2011 and became fully vested on January 15, 2015.

Remarks:

/s/ Robert Daniel, Attorney-in-fact

03/17/2015

** 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.

