

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

**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

1. Name and Address of Reporting Person* <u>Zoth Lota S.</u>  (Last) (First) (Middle) C/O SPARK THERAPEUTICS, INC. 3737 MARKET STREET, SUITE 1300  (Street) PHILADELPHIA PA 19104  (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>Spark Therapeutics, Inc. [ ONCE ]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director 10% Owner Officer (give title below) Other (specify below)
	3. Date of Earliest Transaction (Month/Day/Year) <u>05/30/2018</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	05/31/2018		M		1,500	A	(1)	1,500	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. Nature of Indirect Beneficial Ownership (Instr. 4)	
					(A)	(D)	Date Exercisable	Expiration Date						Title
Stock Option (right to buy)	\$81.53	05/30/2018		A	4,000		(2)	05/29/2028	Common Stock	4,000	\$0	4,000	D	
Restricted Stock Units	(3)	05/30/2018		A	1,500		(4)	(4)	Common Stock	1,500	\$0	1,500	D	
Restricted Stock Units	(3)	05/31/2018		M		1,500	(5)	(5)	Common Stock	1,500	\$0	0	D	

**Explanation of Responses:**

- Each restricted stock unit converted into one share of Spark Therapeutics, Inc. common stock.
- 100% of the shares vest on the one-year anniversary of the grant date.
- Each restricted stock unit represents a contingent right to receive one share of Spark Therapeutics, Inc. common stock.
- 100% of the restricted stock units vest on the one-year anniversary of the grant date. Vested shares will be delivered to the reporting person on the vesting date.
- On May 31, 2017, the reporting person was granted 1,500 restricted stock units that vest on the one-year anniversary of the grant date. Vested shares are delivered to the reporting person on the vesting date.

**Remarks:**

/s/ Joseph W. La Barge, 05/31/2018  
attorney-in-fact for Lota Zoth

\*\* 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.

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