

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>Altschuler Steven</u> _____ (Last) (First) (Middle) <u>C/O SPARK THERAPEUTICS, INC.</u> <u>3737 MARKET STREET, SUITE 1300</u> _____ (Street) <u>PHILADELPHIA PA 19104</u> _____ (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	\$0 ⁽¹⁾	26,500	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 La Barge, as
Attorney in Fact for Steven M. Altschuler, MD
 05/31/2018

** 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.