MYRIAD GENETICS INC		
Form SC 13G/A		
February 14, 2018		

# SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549 **SCHEDULE 13G** (Amendment No. 1) Under the Securities Exchange Act of 1934 Myriad Genetics, Inc. (Name of Issuer) Common Stock, \$0.01 par value (Title of Class of Securities)

# 62855J104

(CUSIP Number)

### December 31, 2017

(Date of Event Which Requires Filing of this Statement)

Check the following box to designate the rule pursuant to which the Schedule is filed:

Rule 13d-1(b)Rule 13d-1(c)Rule 13d-1(d)

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

<sup>\*</sup>The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

# CUSIP No. 62855J104

Names of Reporting

**Persons** I.R.S. **Identification** 1. Nos. of above persons (entities only) D. E. Shaw & Co., L.P. 13-3695715 Check the **Appropriate** Box if a Member of a Group (See **Instructions**) (a) **(b)** 3.SEC Use Only

Citizenship or Place of Organization Delaware

5. Sole Voting Power

Number of

**Shares** 

 $\textbf{6.} \begin{matrix} \textbf{Shared Voting Power} \\ 4,467,917 \end{matrix}$ 

**Beneficially** 

Owned by

Each

7. Sole Dispositive Power

**Reporting** 

**Person With** 

**8. Shared Dispositive Power** 4,763,936

**Aggregate Amount Beneficially Owned by Each Reporting Person** 4,763,936

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) "

11. Percent of Class Represented by Amount in Row (9) 6.9%

12. Type of Reporting Person (See Instructions) IA, PN

# CUSIP No. 62855J104

Names of Reporting Persons

I.R.S. 1. Identification Nos. of above persons (entities only) David E. Shaw Check the **Appropriate** Box if a Member of a Group (See **Instructions**) (a) **(b)** 3.SEC Use Only Citizenship or Place of Organization **United States** 5. Sole Voting Power

Number of

4,763,936

Shares Beneficially Owned by

Each Reporting Person With

Aggregate Amount Beneficially Owned by Each Reporting Person

**6. Shared Voting Power 4**,467,917

7. Sole Dispositive Power  $_{-0}$ -

**8. Shared Dispositive Power** 4,763,936

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) "

11. Percent of Class Represented by Amount in Row (9)  $^{6.9\%}$ 

12. Type of Reporting Person (See Instructions)

Item 1.					
Myriad Genetics, Inc.	(a)	Name of Issuer			
(b) 320 Wakara Way	Address of Issuer's P	rincipal Executive Offices			
Salt Lake City, UT 84108					
Item 2.					
D. E. Shaw & Co., L.P.	a) Nam	e of Person Filing			
David E. Shaw					
(b) Address of Principal Business Office or, if none, Residence The business address for each reporting person is:					
1166 Avenue of the Americas, 9th Floor					
New York, NY 10036					
(c) Citizenship  D. E. Shaw & Co., L.P. is a limited partnership organized under the laws of the state of Delaware.					
David E. Shaw is a citizen of the United States of America.					
(d) Common Stock, \$0.01 par value	•	Class of Securities			
62855J104	(e)	CUSIP Number			

Itom 2 I	If this statement is filed	pursuant to Rule	13d-1(b) or	13d-2(b) or (c),	, check whethe	r the person	filing is
	a:						

Not Applicable

### Item 4. Ownership

As of December 31, 2017:

(a) Amount beneficially owned:

4,763,936 shares

D. E. This is composed of (i) 1,893,851 shares in the name of D. E. Shaw Valence Portfolios, L.L.C., (ii) 7,300 shaw & shares that D. E. Shaw Valence Portfolios, L.L.C. has the right to acquire through the exercise of call Co., L.P.: options, (iii) 1,759,955 shares in the name of D. E. Shaw Oculus Portfolios, L.L.C., (iv) 47 shares in the name of D. E. Shaw Asymptote Portfolios, L.L.C., and (v) 1,102,783 shares under the management of D. E. Shaw Investment Management, L.L.C.

4,763,936 shares

David E. Shaw:

This is composed of (i) 1,893,851 shares in the name of D. E. Shaw Valence Portfolios, L.L.C., (ii) 7,300 shares that D. E. Shaw Valence Portfolios, L.L.C. has the right to acquire through the exercise of call options, (iii) 1,759,955 shares in the name of D. E. Shaw Oculus Portfolios, L.L.C., (iv) 47 shares in the name of D. E. Shaw Asymptote Portfolios, L.L.C., and (v) 1,102,783 shares under the management of D. E. Shaw Investment Management, L.L.C.

(b) Percent of class:

D. E. Shaw & Co., L.P.: 6.9% David E. Shaw: 6.9%

(c) Number of shares to which the person has:

(i) Sole power to vote or to direct the vote:

D. E. Shaw & Co., L.P.: -0- shares David E. Shaw: -0- shares

(ii) Shared power to vote or to direct the vote:

D. E. Shaw & Co., L.P.: 4,467,917 shares David E. Shaw: 4,467,917 shares

(iii) Sole power to dispose or to direct the disposition of:

D. E. Shaw & Co., L.P.: -0- shares David E. Shaw: -0- shares

(iv) Shared power to dispose or to direct the disposition of:

D. E. Shaw & Co., L.P.: 4,763,936 shares David E. Shaw: 4,763,936 shares

David E. Shaw does not own any shares directly. By virtue of David E. Shaw's position as President and sole shareholder of D. E. Shaw & Co., Inc., which is the general partner of D. E. Shaw & Co., L.P., which in turn is the manager and investment adviser of D. E. Shaw Valence Portfolios, L.L.C., the investment adviser of D. E. Shaw Oculus Portfolios, L.L.C., and the managing member of (i) D. E. Shaw Investment Management, L.L.C. and (ii) D. E. Shaw Adviser, L.L.C., which in turn is the investment adviser of D. E. Shaw Asymptote Portfolios, L.L.C., and by virtue of David E. Shaw's position as President and sole shareholder of D. E. Shaw & Co. II, Inc., which is the managing member of D. E. Shaw & Co., L.L.C., which in turn is the manager of D. E. Shaw Oculus Portfolios, L.L.C. and the managing member of D. E. Shaw Manager, L.L.C., which in turn is the manager of D. E. Shaw Asymptote Portfolios, L.L.C., David E. Shaw may be deemed to have the shared power to vote or direct the vote of 4,467,917 shares, and the shared power to dispose or direct the disposition of 4,763,936 shares, the 4,763,936 shares as described above constituting 6.9% of the outstanding shares and, therefore, David E. Shaw may be deemed to be the beneficial owner of such shares. David E. Shaw disclaims beneficial ownership of such 4,763,936 shares.

# Item 5. Ownership of Five Percent or Less of a Class

Not Applicable

Item 6. Ownership of More than Five Percent on Behalf of Another Person.

Not Applicable

Item Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on Bythe Parent Holding Company or Control Person.

Not Applicable

Item 8. Identification and Classification of Members of the Group

Not Applicable

Item 9. Notice of Dissolution of Group

Not Applicable

### Item 10. Certification

By signing below, each of D. E. Shaw & Co., L.P. and David E. Shaw certify that, to the best of such reporting person's knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having such purposes or effect.

### **SIGNATURE**

After reasonable inquiry and to the best of their knowledge and belief, the undersigned certify that the information set forth in this statement is true, complete and correct. A Power of Attorney, dated March 1, 2017, granted by David E. Shaw in favor of Nathan Thomas, is attached hereto.

Dated: February 14, 2018

D. E. Shaw & Co., L.P.

By: <u>/s/ Nathan Thomas</u>
Nathan Thomas
Chief Compliance Officer

David E. Shaw

By: <u>/s/ Nathan Thomas</u>
Nathan Thomas
Attorney-in-Fact for David E. Shaw