Prospectus Supplement No. 3 dated September 18, 2017 (To Prospectus Dated March 8, 2017)



The information in this prospectus supplement supplements the statements set forth under the caption "Selling Stockholders" in the prospectus. This prospectus supplement should be read in conjunction with the prospectus, which is required to be delivered with this prospectus supplement.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined

Investing in our common stock involves a high degree of risk. See "Risk Factors" beginning on page 3 of the prospectus.

if this prospectus supplement is truthful or complete. Any representation to the contrary is a criminal offense.

Selling Stockholders

In December 2016, Editas Medicine, Inc. (the "Company") issued Initial Promissory Notes (as defined in the prospectus) in an aggregate original principal amount of \$10,000,000 to The Broad Institute, Inc. ("Broad") and Wageningen University ("Wageningen"), and in March 2017, issued a promissory note in an original principal amount of \$4,600,000 (the "2017 Note") to Broad. Each of these notes was convertible at the Company's option into shares of common stock of the Company. On August 4, 2017, the Company repaid all outstanding principal and interest on the 2017 Note by issuing an aggregate of 271,347 shares of common stock to Broad. On August 14, 2017, the Company repaid \$2.3 million of the outstanding principal and interest on the Initial Promissory Note held by Broad by issuing an aggregate of 108,104 shares of common stock to Broad and repaid \$200,000 of the outstanding principal and interest on the Initial Promissory Note held by Wageningen in cash.

In September 2017, Broad and Wageningen entered into a letter acknowledging that all future payments due under the Initial Promissory Notes would be made solely to Broad and consenting to the Company's cancellation of the Initial Promissory Notes and issuance of a new promissory note (the "Replacement Note") with a principal amount of \$7,500,000 to Broad, with interest accruing from December 16, 2016. On September 7, 2017, the Company cancelled the Initial Promissory Notes and issued the Replacement Note. On September 18, 2017, the Company repaid all outstanding principal and interest on the Replacement Note by issuing an aggregate of 371,166 shares of common stock to Broad.

The following table sets forth, to our knowledge, information concerning the beneficial ownership of shares of our common stock by the selling stockholders as of September 18, 2017. This information updates and supersedes the information contained under the heading "Selling Stockholders" in the prospectus dated March 8, 2017.

Beneficial ownership is determined in accordance with the rules of the Securities and Exchange Commission, and includes voting or investment power with respect to shares. Unless otherwise indicated below, to our knowledge, the

selling stockholders named in the table have sole voting and investment power with respect to their respective shares of common stock. The inclusion of any shares in this table does not constitute an admission of beneficial ownership for the selling stockholders named below.

Except as set forth herein and in the prospectus, the selling stockholders have not held any position or office with, and have not otherwise had a material relationship with, us or any of our subsidiaries within the past three years.

	Shares of Common Stock Beneficially Owned Prior to Offering		Number of Shares of Common Stock	Shares of Common Stock to be Beneficially Owned After Offering (1)	
Name of Selling Stockholder	Number	Percentage(2)	Being Offered	Number	Percentage(2)
The Broad Institute, Inc.	523,330	1.24%	523,330	0	*
Wageningen University	0	*	0	0	*

^{*} Less than one percent.

⁽¹⁾ We do not know when or in what amounts the selling stockholders may offer shares for sale. The selling stockholders might not sell any or all of the shares covered by this prospectus. Because the selling stockholders may offer all or some of the shares pursuant to this offering, and because there are currently no agreements, arrangements, or understandings with respect to the sale of any of the shares, we cannot estimate the number of the shares that will be held by the selling stockholders after completion of the offering. However, for purposes of this table, we have assumed that, after completion of the offering, none of the shares covered by this prospectus will be held by the selling stockholders.

(2) Based on 41,736,156 shares of our common stock outstanding on September 17, 2017 plus the shares issued to Broad on September 18, 2017.