

4,000,000 shares of common stock issuable upon the exercise of the 4,000,000 outstanding Class A warrants

and

2,000,000 shares of common stock issuable upon the exercise of the 4,000,000 outstanding Class B warrants

This prospectus supplement No. 36 supplements the prospectus dated October 14, 2015 filed pursuant to Rule 424(b)(4) by Cerecor Inc. (the "Company" or "we"), as supplemented by the prospectus supplement No. 1 dated October 20, 2015, the prospectus supplement No. 2 dated November 13, 2015, the prospectus supplement No. 3 dated November 23, 2015, the prospectus supplement No. 4 dated December 17, 2015, the prospectus supplement No. 5 dated December 21, 2015, the prospectus supplement No. 6 dated December 29, 2015, the prospectus supplement No. 7 dated January 5, 2016, the prospectus supplement No. 8 dated January 12, 2016, the prospectus supplement No. 9 dated January 19, 2016, the prospectus supplement No. 10 dated February 2, 2016, the prospectus supplement No. 11 dated April 11, 2016, the prospectus supplement No. 12 dated May 25, 2016, the prospectus supplement No. 13 dated May 26, 2016, the prospectus supplement No. 14 dated May 26, 2016, the prospectus supplement No. 15 dated July 20, 2016, the prospectus supplement No. 16 dated August 15, 2016, the prospectus supplement No. 17 dated August 29, 2016, the prospectus supplement No. 18 dated September 6, 2016, the prospectus supplement No. 19 dated September 12, 2016, the prospectus supplement No. 20 dated September 21, 2016, the prospectus supplement No. 21 dated September 26, 2016, the prospectus supplement No. 22 dated November 8, 2016, the prospectus supplement No. 23 dated November 29, 2016, the prospectus supplement No. 24 dated December 5, 2016, the prospectus supplement No. 25 dated January 20, 2017, the prospectus supplement No. 26 dated January 27, 2017, the prospectus supplement No. 27 dated January 30, 2017, the prospectus supplement No. 28 dated March 2, 2017, the prospectus supplement No. 29 dated March 13, 2017, the prospectus supplement No. 30 dated March 15, 2017, the prospectus supplement No. 31 dated May 9, 2017, the prospectus supplement No. 32 dated July 7, 2017, the prospectus supplement No. 33 dated July 7, 2017, the prospectus supplement No. 34 dated August 14, 2017, the prospectus supplement No. 35 dated August 14, 2017, and the prospectus supplement No. 36 dated August 25, 2017, each filed pursuant to Rule 424(b)(3) by the Company (collectively, the "Prospectus"). Pursuant to the Prospectus, this prospectus supplement relates to the continuous offering of 4,000,000 shares of common stock underlying our Class A warrants. Each warrant was a component of a unit that we issued in our initial public offering, which closed on October 20, 2015. The components of the units began to trade separately on November 13, 2015. Each Class A warrant became exercisable on the date when the units detached and the components began to trade separately and will expire on October 20, 2018, or earlier upon redemption.

This prospectus supplement incorporates into our Prospectus the information contained in our attached Current Report on Form 8-K/A, which was filed with the Securities and Exchange Commission on October 18, 2017.

You should read this prospectus supplement in conjunction with the Prospectus, including any supplements and amendments thereto. This prospectus supplement is qualified by reference to the Prospectus except to the extent that the information in this prospectus supplement supersedes the information contained in the Prospectus.

This prospectus supplement is not complete without, and may not be delivered or utilized except in connection with, the Prospectus, including any supplements and amendments thereto.

Our common stock, the Class A warrants are traded on The NASDAQ Capital Market under the symbols "CERC," and "CERCW," respectively.

AN INVESTMENT IN OUR SECURITIES INVOLVES A HIGH DEGREE OF RISK. SEE THE SECTION ENTITLED "RISK FACTORS" BEGINNING ON PAGE 16 OF THE PROSPECTUS

FOR A DISCUSSION OF INFORMATION THAT SHOULD BE CAREFULLY CONSIDERED IN CONNECTION WITH AN INVESTMENT IN OUR SECURITIES

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this Prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

The date of this prospectus supplement is October 18, 2017

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM 8-K/A (Amendment No. 2)

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): October 17, 2017

Cerecor Inc.

(Exact name of Registrant as Specified in Its Charter)

001-37590

(Commission

Delaware (State or Other Jurisdiction

45-0705648

(IRS Employer Identification No.)

	of incorporation)	The Number)		
	400 E. Pratt Street Suite 606 Baltimore, Maryland (Address of Principal Executive Office)	e)	21202 (Zip Code)	
	(Address of Finicipal Executive Offices	,,	(Zip Code)	
	Registrant's	s Telephone Number, Including Area Code:	: (410) 522-8707	
	(Former I	Not Applicable Name or Former Address, if Changed Since	e Last Report)	
	k the appropriate box below if the Form 8-K filing is in sions (see General Instructions A.2. below):	ntended to simultaneously satisfy the filing	obligation of the registrant under any of the following	
]	Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)			
	Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)			
	Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))			
]	Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))			
or Ru	Indicate by check mark whether the registrant is an alle 12b-2 of the Securities Exchange Act of 1934 (§ 24)		ule 405 of the Securities Act of 1933 (§ 230.405 of this chapter)	
Emer	rging growth company			
evise	If an emerging growth company, indicate by check and financial accounting standards provided pursuant to		the extended transition period for complying with any new or	

EXPLANATORY NOTE

Cerecor Inc. (the "*Company*") is filing this Current Report on Form 8-K/A (Amendment No. 2) in order to amend its previously filed Current Report on Form 8-K, as filed with the Securities and Exchange Commission on March 2, 2017 and amended on August 25, 2017.

Item 3.01. Notice of Delisting or Failure to Satisfy a Continued Listing Rule or Standard; Transfer of Listing.

On October 17, 2017, Cerecor Inc. (the "Company") received notice from the Nasdaq Listing Qualifications Staff (the "Staff") confirming that the Company has regained compliance with the minimum bid price requirement under Nasdaq Listing Rule 5550(a)(2) (the "Rule") for continued listing of the Company's common stock and Class A warrants on The Nasdaq Capital Market. In February 2017, the Staff notified the Company that its common stock failed to maintain a minimum bid price of \$1.00 over the previous 30 consecutive business days as required by the Rule. Since then, the Staff has determined that from October 3 to October 16, 2017, the closing bid price of the Company's common stock has been at \$1.00 per share or greater.

SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

CERECOR INC.

Date: October 18, 2017 By: /s/ Mariam E. Morris

Mariam E. Morris Chief Financial Officer