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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**  
Washington, D.C. 20549

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**Form S-8**  
**REGISTRATION STATEMENT  
UNDER  
THE SECURITIES ACT OF 1933**

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**Cerecor Inc.**

(Exact name of Registrant as Specified in its charter)

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**Delaware**  
(State or other jurisdiction of  
incorporation or organization)

**45-0705648**  
(I.R.S. Employer  
Identification Number)

**400 E. Pratt Street  
Suite 606  
Baltimore, Maryland  
(410) 522-8707**

(Address, including zip code, and telephone number, including area code, of Registrant's principal executive offices)

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**Cerecor Inc. 2016 Equity Incentive Plan**  
(Full title of the plan)

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**Uli Hacksell  
President and Chief Executive Officer  
Cerecor Inc.  
400 E. Pratt Street  
Suite 606  
Baltimore, Maryland  
(410) 522-8707**

(Name, address, including zip code, and telephone number, including area code, of agent for service)

**With copies to:**

**Brent B. Siler**  
Cooley LLP  
1299 Pennsylvania Avenue, NW, Suite 700  
Washington, DC 20004  
(202) 842-7800

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Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer

Accelerated filer

Non-accelerated filer  (Do not check if a smaller reporting company)

Smaller reporting company

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**CALCULATION OF REGISTRATION FEE**

Title of securities to be registered	Amount to be registered (1)	Proposed maximum offering price per share (2)	Proposed maximum aggregate offering price	Amount of registration fee
Common Stock, par value \$0.001 per share	3,966,380 shares	\$ 3.42 - \$ 6.19	\$ 17,589,171	\$ 1,771.23

- (1) Pursuant to Rule 416(a) under the Securities Act of 1933, as amended (the "Securities Act"), this Registration Statement shall also cover any additional shares of the Registrant's common stock, par value \$0.001 per share ("Common Stock"), which become issuable under the Registrant's 2016 Equity Incentive Plan (the "2016 Plan") by reason of any stock dividend, stock split, recapitalization or any other similar transaction effected without the receipt of consideration which results in an increase in the number of outstanding shares of Common Stock.
- (2) Estimated solely for the purpose of calculating the amount of the registration fee pursuant to Rule 457(c) and Rule 457(h) promulgated under the Securities Act. The offering price per share and the aggregate offering price are based upon (a) \$6.19, which is the weighted-average exercise price for outstanding options granted under the Cerecor Inc. 2015 Omnibus Incentive Compensation Plan (the "2015 Plan"), (b) \$3.52, which is the exercise price for outstanding options granted under the 2016 Plan and (c) \$3.42, which is the average of the high and low prices of the Registrant's Common Stock as reported on the NASDAQ Capital Market on May 18, 2016. The chart below details the calculation of the registration fee:

Securities	Number of shares	Offering price per share	Aggregate offering price	Amount of registration fee
Shares issuable upon the exercise of outstanding options granted under the 2015 Plan	1,450,952	\$ 6.19 (2)(a)	\$ 8,981,393	\$ 904.43
Shares issuable upon the exercise of outstanding options granted under the 2016 Plan	50,142	\$ 3.52 (2)(b)	\$ 176,500	\$ 17.77
Shares reserved for future grant under the 2016 Plan (3)	2,465,286	\$ 3.42 (2)(c)	\$ 8,431,278	\$ 849.03

- (3) Pursuant to the terms of the 2016 Plan, includes up to 1,450,952 shares subject to outstanding awards under the 2015 Plan, which to the extent such awards terminate, expire or are forfeited, would become available for issuance under the 2016 Plan.

## PART I

### INFORMATION REQUIRED IN THE SECTION 10(a) PROSPECTUS

**Item 1. Plan Information.\***

**Item 2. Registrant Information and Employee Plan Annual Information.\***

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\* The documents containing the information specified in Part I will be delivered to the participants of the 2016 Equity Incentive Plan in accordance with Rule 428(b)(1) under the Securities Act. Such documents are not required to be, and are not, filed with the Securities and Exchange Commission (the "Commission"), either as part of this Registration Statement or as prospectuses or prospectus supplements pursuant to Rule 424 under the Securities Act. These documents, and the documents incorporated by reference in this Registration Statement pursuant to Item 3 of Part II of this Form S-8, taken together, constitute a prospectus that meets the requirements of Section 10(a) of the Securities Act.

## PART II

### INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

**Item 3. Incorporation of Documents by Reference.**

The following documents, which have been filed by Cerecor Inc. (the "Registrant") with the Commission pursuant to the Securities Exchange Act of 1934, as amended (the "Exchange Act"), are hereby incorporated by reference in this Registration Statement:

- (1) The Registrant's Annual Report on Form 10-K for the year ended December 31, 2015, filed with the SEC on March 23, 2016 (including, for the avoidance of doubt, information specifically incorporated by reference in the Registrant's Form 10-K from the Registrant's Definitive Proxy Statement for its 2016 Annual Meeting of Stockholders, filed with the SEC on April 8, 2016);
- (2) The Registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2016, filed with the SEC on May 16, 2016;
- (3) The Registrant's Current Reports on Form 8-K (excluding any information and exhibits furnished under either Item 2.02 and Item 7.01 thereof), filed with the SEC on January 5, 2016, January 12, 2016, January 19, 2016, February 2, 2016, April 11, 2016 and May 20, 2016;
- (4) All other documents filed by the Registrant pursuant to Section 13(a) or 15(d) of the Exchange Act since the end of the fiscal year covered by the document referred to in (a) above; and
- (5) The description of the Registrant's securities which is contained in the Registration Statement on Form 8-A filed with the SEC on October 9, 2015, pursuant to Section 12(b) of the Exchange Act including any amendment or report filed for the purpose of updating such description.

All reports and other documents subsequently filed by the Registrant pursuant to Sections 13(a), 13(c), 14 and 15(d) of the Exchange Act after the date of this Registration Statement, but prior to the filing of a post-effective amendment which indicates that all securities offered hereby have been sold or which deregisters all securities then remaining unsold, shall be deemed to be incorporated by reference herein and to be a part hereof from the date of filing of such documents. Unless expressly incorporated into this Registration Statement, a report furnished under Item 2.02 or Item 7.01 but not filed on Form 8-K shall not be incorporated by reference into this Registration Statement to the extent furnished but not filed.

Any statement contained in a document incorporated or deemed to be incorporated by reference herein shall be deemed to be modified or superseded for purposes of this Registration Statement to the extent that a statement

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contained herein or in any other subsequently filed document that also is or is deemed to be incorporated by reference herein modifies or supersedes such statement. Any statement so modified or superseded shall not be deemed, except as so modified or superseded, to constitute a part of this Registration Statement.

**Item 4. Description of Securities.**

Not applicable.

**Item 5. Interests of Named Experts and Counsel.**

Not applicable.

**Item 6. Indemnification of Directors and Officers.**

Section 145 of the Delaware General Corporation Law (the "DGCL") authorizes a court to award, or a corporation's board of directors to grant, indemnity to directors and officers in terms sufficiently broad to permit such indemnification under certain circumstances for liabilities, including reimbursement for expenses incurred, arising under the Securities Act.

The Registrant's amended and restated certificate of incorporation provides for indemnification of its directors, officers and agents to the maximum extent permitted by the DGCL, and the Registrant's bylaws provide for indemnification of its directors, officers and agents to the maximum extent permitted by the DGCL.

In addition, the Registrant has indemnification agreements with its directors containing provisions which are in some respects broader than the specific indemnification provisions contained in the DGCL. The indemnification agreements require the Registrant, among other things, to indemnify its directors against certain liabilities that may arise by reason of their status or service as directors and to advance their expenses incurred as a result of any proceeding against them as to which they could be indemnified.

The Registrant maintains insurance policies that indemnify its directors and officers against various liabilities arising under the Securities Act and the Exchange Act that might be incurred by any director or officer in his or her capacity as such.

**Item 7. Exemption from Registration Claimed.**

Not applicable.

**Item 8. Exhibits.**

A list of exhibits filed herewith or incorporated by reference is contained in the Exhibit Index immediately following the signature pages and is incorporated herein by reference.

**Item 9. Undertakings.**

(a) The undersigned Registrant hereby undertakes:

- (1) To file, during any period in which offers or sales are being made, a post-effective amendment to this Registration Statement:
    - (i) To include any prospectus required by Section 10(a)(3) of the Securities Act;
    - (ii) To reflect in the prospectus any facts or events arising after the effective date of the Registration Statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from
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the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than 20 percent change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement; and

- (iii) To include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the Registration Statement;

*provided, however,* that paragraphs (a)(1)(i) and (a)(1)(ii) of this section do not apply if the information required to be included in a post-effective amendment by those paragraphs is contained in reports filed with or furnished to the Commission by the Registrant pursuant to Section 13 or Section 15(d) of the Exchange Act that are incorporated by reference in this Registration Statement.

- (2) That, for the purpose of determining any liability under the Securities Act, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof.
  - (3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.
  - (4) That, for the purpose of determining liability of the Registrant under the Securities Act to any purchaser in the initial distribution of the securities, the undersigned Registrant undertakes that in a primary offering of securities of the undersigned Registrant pursuant to this Registration Statement, regardless of the underwriting method used to sell the securities to the purchaser, if the securities are offered or sold to such purchaser by means of any of the following communications, the undersigned Registrant will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:
    - (i) Any preliminary prospectus or prospectus of the undersigned Registrant relating to the offering required to be filed pursuant to Rule 424;
    - (ii) Any free writing prospectus relating to the offering prepared by or on behalf of the undersigned Registrant or used or referred to by the undersigned Registrant;
    - (iii) The portion of any other free writing prospectus relating to the offering containing material information about the undersigned Registrant or its securities provided by or on behalf of the undersigned Registrant; and
    - (iv) Any other communication that is an offer in the offering made by the undersigned Registrant to the purchaser.
  - (b) The undersigned Registrant hereby undertakes that, for purposes of determining any liability under the Securities Act, each filing of the Registrant's annual report pursuant to Section 13(a) or Section 15(d) of the Exchange Act (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Exchange Act) that is incorporated by reference in the Registration Statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof.
  - (c) Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers and controlling persons of the Registrant pursuant to the foregoing provisions, or otherwise, the Registrant has been advised that, in the opinion of the Commission such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the Registrant of expenses incurred or paid by a director, officer or controlling person of the Registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the Registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of
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## EXHIBIT INDEX

<u>Exhibit No.</u>	<u>Description of Exhibit</u>
4.1	Amended and Restated Certificate of Incorporation of Cerecor Inc., effective as of October 20, 2015 (previously filed as Exhibit 3.1 to the Registrant's Current Report on Form 8-K filed on October 20, 2015 and incorporated by reference herein).
4.2	Amended and Restated Bylaws of Cerecor Inc., effective as of October 20, 2015 (previously filed as Exhibit 3.2 to the Registrant's Current Report on Form 8-K filed on October 20, 2015 and incorporated by reference herein).
4.3	Specimen Common Stock Certificate.
4.4	Cerecor Inc. 2016 Equity Incentive Plan (previously filed as Exhibit 10.1 to the Registrant's Current Report on Form 8-K filed on May 20, 2016 and incorporated by reference herein).
5.1	Opinion of Cooley LLP as to the legality of the securities being registered.
23.1	Consent of Cooley LLP (included in the opinion filed as Exhibit 5.1).
23.2	Consent of Ernst & Young LLP, independent registered public accounting firm.
24.1	Power of Attorney (included on the signature page of this Registration Statement).

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INCORPORATED UNDER THE LAWS OF THE STATE OF DELAWARE

COMMON STOCK

SHARES

CUSIP 15671L 10 9

SEE REVERSE FOR CERTAIN DEFINITIONS

THIS CERTIFIES THAT

is the owner of

FULLY PAID AND NON-ASSESSABLE SHARES OF COMMON STOCK, \$0.001 PAR VALUE PER SHARE, OF

**CERECOR INC.**

transferable only on the books of the Corporation by the holder hereof in person or by duly authorized Attorney upon surrender of this Certificate properly endorsed or assigned. This Certificate and the shares represented hereby are subject to the laws of the State of Delaware, and to the Certificate of Incorporation and Bylaws of the Corporation, as now or hereafter amended. This Certificate is not valid until countersigned and registered by the Transfer Agent and Registrar.

Witness the facsimile signatures of the Corporation's duly authorized officers.

Dated:

CHIEF EXECUTIVE OFFICER

CHIEF FINANCIAL OFFICER

BY  
 AMERICAN STOCK TRANSFER AGENT AND REGISTRAR  
 AUTHORIZED SIGNATURE

PROOF OF FEBRUARY 2, 2016  
 CERECOR INC. OPERATOR: DKS  
 WO-10248 FACE NEW  
 711 ARMSTRONG LANE, COLUMBIA, TN 38401  
 SALES: HOLLY GARDNER 931-400-7690

**Imagio prints in SC-7 Dark Blue. Logo prints in aColor Process.**  
 Colors Subjected for Priming: Imagio prints in SC-7 Dark Blue. Logo prints in aColor Process.  
 PLEASE INITIAL THE AUTHORIZED SIGNATURE. THIS CERTIFICATE IS NOT VALID UNTIL COUNTERSIGNED AND REGISTERED BY THE TRANSFER AGENT AND REGISTRAR.  
 NOTE: TEXT RECEIVED BY MODERN OR E-MAIL IS NOT PROOFREAD WORD FOR WORD.



THE CORPORATION WILL FURNISH TO ANY STOCKHOLDER, UPON REQUEST AND WITHOUT CHARGE, A FULL STATEMENT OF THE DESIGNATIONS, RELATIVE RIGHTS, PREFERENCES AND LIMITATIONS OF THE SHARES OF EACH CLASS AND SERIES AUTHORIZED TO BE ISSUED, SO FAR AS THE SAME HAVE BEEN DETERMINED, AND OF THE AUTHORITY, IF ANY, OF THE BOARD TO DIVIDE THE SHARES INTO CLASSES OR SERIES AND TO DETERMINE AND CHANGE THE RELATIVE RIGHTS, PREFERENCES AND LIMITATIONS OF ANY CLASS OR SERIES. SUCH REQUEST MAY BE MADE TO THE SECRETARY OF THE CORPORATION OR TO THE TRANSFER AGENT NAMED ON THIS CERTIFICATE.

The following abbreviations, when used in the inscription on the face of this Certificate, shall be construed as though they were written out in full according to applicable laws or regulations:

TEN COM	– as tenants in common	UNIF GIFT MIN ACT–	Custodian
TEN ENT	– as tenants by the entireties	(Cust)	(Minor)
JT TEN	– as joint tenants with right of survivorship and not as tenants in common		under Uniform Gifts to Minors Act
			(State)

Additional abbreviations may also be used though not in the above list.

*For value received,* \_\_\_\_\_ *hereby sell, assign and transfer unto*

PLEASE INSERT SOCIAL SECURITY OR OTHER IDENTIFYING NUMBER OF ASSIGNEE

(PLEASE PRINT OR TYPEWRITE NAME AND ADDRESS, INCLUDING ZIP CODE, OF ASSIGNEE)

\_\_\_\_\_ shares  
*of the Common stock represented by the within Certificate, and do hereby irrevocably constitute and appoint*

\_\_\_\_\_ *Attorney*  
*to transfer the said stock on the books of the within named Corporation with full power of substitution in the premises.*

*Dated* \_\_\_\_\_

**NOTICE:** THE SIGNATURE TO THIS ASSIGNMENT MUST CORRESPOND WITH THE NAME AS WRITTEN UPON THE FACE OF THE CERTIFICATE IN EVERY PARTICULAR, WITHOUT ALTERATION OR ENLARGEMENT OR ANY CHANGE WHATSOEVER.

**SIGNATURE(S) GUARANTEED:** \_\_\_\_\_

THE SIGNATURE(S) MUST BE GUARANTEED BY AN ELIGIBLE GUARANTOR INSTITUTION (BANKS, STOCKBROKERS, SAVINGS AND LOAN ASSOCIATIONS AND CREDIT UNIONS WITH MEMBERSHIP IN AN APPROVED SIGNATURE MEDALLION PROGRAM), PURSUANT TO S.E.C. RULE 17A-15.

<b>ABnote North America</b> 711 ARMSTRONG LANE, COLUMBIA, TN 38401 (931) 388-3003 <small>SALES: HOLLY GRONER 931-490-7660</small>	<small>PROOF OF: FEBRUARY 2, 2016</small> <b>CERECOR INC.</b> <small>WO - 10246 BACK OPERATOR: DKS</small> <b>NEW</b>
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PLEASE INITIAL THE APPROPRIATE SELECTION FOR THIS PROOF:  OK AS IS  OK WITH CHANGES  MAKE CHANGES AND SEND ANOTHER PROOF

**NO REVISIONS TO BACK OF CERTIFICATE - SHOWN FOR PROOF ONLY.**



**Exhibit 5.1**

Brent B. Siler  
T: +1 202 728 7040  
bsiler@cooley.com

May 20, 2016

Cerecor Inc.  
400 E. Pratt Street, Suite 606  
Baltimore, Maryland 21202

Ladies and Gentlemen:

You have requested our opinion, as counsel to Cerecor Inc., a Delaware corporation (the “**Company**”), in connection with the filing by the Company of a Registration Statement on Form S-8 (the “**Registration Statement**”) with the Securities and Exchange Commission covering the offering of up to (i) 1,450,952 shares (the “**2015 Plan Shares**”) of the Company’s Common Stock, par value \$0.001 per share (the “**Common Stock**”), pursuant to the Company’s 2015 Omnibus Incentive Compensation Plan, as amended (the “**2015 Plan**”), and (ii) 2,515,428 shares (together with the 2015 Plan Shares, the “**Shares**”) of Common Stock pursuant to the Company’s 2016 Equity Incentive Plan (together with the 2015 Plan, the “**Plans**”).

In connection with this opinion, we have examined and relied upon (a) the Registration Statement and the related prospectuses, (b) the Company’s Amended and Restated Certificate of Incorporation and Bylaws, each as currently in effect, (c) the Plans, and (d) the originals or copies certified to our satisfaction of such records, documents, certificates, memoranda and other instruments as in our judgment are necessary or appropriate to enable us to render the opinion expressed below. We have assumed the genuineness and authenticity of all documents submitted to us as originals, the conformity to originals of all documents submitted to us as copies, the accuracy, completeness and authenticity of certificates of public officials; and the due authorization, execution and delivery of all documents by all persons other than the Company where authorization, execution and delivery are prerequisites to the effectiveness of such documents. As to certain factual matters, we have relied upon a certificate of an officer of the Company and have not sought independently to verify such matters.

Our opinion is expressed only with respect to the General Corporation Law of the State of Delaware. We express no opinion as to whether the laws of any particular jurisdiction other than those identified above are applicable to the subject matter of this opinion. We are not rendering any opinion as to compliance with any federal or state law, rule or regulation relating to securities, or to the sale or issuance thereof.

On the basis of the foregoing, and in reliance thereon, we are of the opinion that the Shares, when sold and issued in accordance with the Plans, the Registration Statement and the related prospectuses, will be validly issued, fully paid and nonassessable (except as to shares issued pursuant to certain deferred payment arrangements, which will be fully paid and nonassessable when such deferred payments are made in full).

We consent to the filing of this opinion as an exhibit to the Registration Statement.

Sincerely,

Cooley LLP

By: /s/ Brent B. Siler  
Brent B. Siler



Consent of Independent Registered Public Accounting Firm

We consent to the incorporation by reference in the Registration Statement on Form S-8 pertaining to the Cerecor Inc. 2016 Equity Incentive Plan of our report dated March 23, 2016, with respect to the financial statements of Cerecor Inc., included in its Annual Report (Form 10-K) for the year ended December 31, 2015, filed with the Securities and Exchange Commission.

/s/ Ernst & Young LLP

Baltimore, Maryland  
May 20, 2016

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