

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, DC 20549

FORM 8-K

CURRENT REPORT

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

October 11, 2023  
Date of Report (date of earliest event reported)

OpGen, Inc.  
(Exact name of Registrant as specified in its charter)

Delaware  
(State or other jurisdiction of incorporation  
or organization)

001-37367  
(Commission  
File Number)

06-1614015  
(I.R.S. Employer  
Identification Number)

9717 Key West Ave, Suite 100  
Rockville, MD 20850  
(Address of principal executive offices)(Zip code)

(240) 813-1260  
(Registrant's telephone number, including area code)

Not Applicable  
(Former name or former address, if changed since last report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instruction A.2. below):

- 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))

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock	OPGN	The Nasdaq Capital Market

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

### **Item 1.01. Entry Into a Material Definitive Agreement.**

On October 11, 2023, OpGen, Inc. (the “Company”) entered into a Preferred Stock Purchase Agreement (the “Purchase Agreement”) with a single investor (the “Investor”), pursuant to which the Company agreed to issue and sell to the Investor in a private placement (the “Private Placement”) 1,000 shares of the Company’s Series D Preferred Stock, par value \$0.01 per share (the “Preferred Stock”). Each share of Preferred Stock is being sold at a price of \$1,000 per share for aggregate gross proceeds of \$1.0 million before deducting offering expenses. The Private Placement was conducted in connection with the negotiation of a potential strategic transaction involving the Company and the Investor. The Company intends to use the proceeds of the Private Placement to fund the Company’s operations while it pursues a potential strategic transaction with the Investor. Any such strategic transaction will be pursuant to a definitive agreement entered into by the Company and the Investor.

The offering is expected to close on or about October 13, 2023.

Pursuant to the Purchase Agreement, the Company filed a certificate of designation (the “Certificate of Designation”) with the Secretary of State of the State of Delaware designating the rights, preferences and limitations of the shares of Preferred Stock on October 11, 2023. The Certificate of Designation provides that the Preferred Stock have a stated value of \$1,000 per share and are convertible into shares of common stock, par value \$0.01 per share (the “Common Stock”) of the Company at a price of \$0.409 per share, subject to adjustment in the event of certain stock dividends and distributions, stock splits, stock combinations, reclassifications, or similar events affecting the Common Stock. The Preferred Stock may be converted at any time at the option of the holder. Notwithstanding the foregoing, the Certificate of Designation provides that in no event will the Preferred Stock be convertible into Common Stock in a manner that would result in the holder, its permitted transferees and affiliates holding more than 19.99% (together with any shares of Common Stock otherwise held by the Investor, its permitted transferees and their affiliates) of the then issued and outstanding Common Stock (the “Ownership Limitation”), prior to the date that the Company’s stockholders approve the issuance of shares of Common Stock to the holder upon conversion of the Preferred Stock (the “Stockholder Approval”). Upon receipt of Stockholder Approval, the shares of Preferred Stock will automatically be converted into shares of Common Stock without further action of the holder thereof.

The holder of shares of the Preferred Stock will be entitled to vote with the holders of the Common Stock on an as-converted basis (subject to the Ownership Limitation set forth in the Certificate of Designation). The Certificate of Designation provides that the maximum amount of votes that may be cast by the holder of Preferred Stock on any matter submitted to the vote of stockholders prior to receipt of Stockholder Approval will be equal to the Ownership Limitation.

Each holder of a Preferred Stock shall be entitled to receive dividends, on an as-if converted basis, equal to and in the same form as dividends actually paid on shares of Common Stock, when and if actually paid. Upon any liquidation, dissolution or winding up of the Company prior to the receipt of Stockholder Approval, the holders of the Preferred Stock will be entitled to receive out of the assets available for distribution to stockholders of the Company an amount equal to the aggregate stated value of such shares prior to any distribution made to the holders of Common Stock. Following receipt of Stockholder Approval, upon any liquidation, dissolution or winding up of the Company, the assets of the Company will be distributed among the holders of Common Stock and Preferred Stock on a pro rata basis.

The representations, warranties and covenants contained in the Purchase Agreement were made solely for the benefit of the parties to the Purchase Agreement and may be subject to limitations agreed upon by the contracting parties. Accordingly, the Purchase Agreement is incorporated herein by reference only to provide investors with information regarding the terms of the Purchase Agreement, and not to provide investors with any other factual information regarding the Company or its business, and should be read in conjunction with the disclosures in the Company’s periodic reports and other filings with the Securities and Exchange Commission.

The foregoing description of the Purchase Agreement and the Certificate of Designation do not purport to be complete and are qualified in their entirety by reference to the full text of the form of Purchase Agreement and Certificate of Designation which are filed as Exhibits 10.1 and 3.1, respectively, to this Current Report on Form 8-K and incorporated herein by reference.

### **Item 3.02. Unregistered Sales of Equity Securities.**

The disclosure required by this Item and included in Item 1.01 of this Current Report is incorporated herein by reference. The Preferred Stock was sold without registration under the Securities Act of 1933, as amended (the “Securities Act”), in reliance on the exemptions provided by Section 4(a)(2) of the Securities Act as a transaction not involving a public offering and Rule 506(b) of Regulation D promulgated under the Securities Act as sales to accredited investors and in reliance on similar exemptions under applicable state laws.

### **Item 3.03. Material Modifications to Rights of Security Holders.**

The disclosure required by this Item and included in Item 1.01 of this Current Report is incorporated herein by reference.

### **Item 5.03. Amendments to Articles of Incorporation or Bylaws; Change in Fiscal Year.**

The disclosure required by this Item and included in Item 1.01 of this Current Report is incorporated herein by reference.

### **Forward-Looking Statements**

The above discussion regarding the Private Placement and a potential strategic transaction involving the Company are “forward-looking statements” within the meaning of the Private Securities Litigation Reform Act of 1995 that are intended to qualify for the safe harbor from liability established thereunder. Such forward-looking statements are subject to risks and uncertainties that are often difficult to predict, are beyond the Company’s control, and which may cause results to differ materially from expectations, including the risk that the definitive agreement with the strategic partner will not be successfully negotiated or consummated. In addition, for a discussion of factors that could materially affect the outcome of the Company’s forward-looking statements and its future results and financial condition, see “Risk Factors” in Part I, Item 1A, of the Company’s Annual Report on Form 10-K for the year ended December 31, 2022 and its other reports filed with the Securities and Exchange Commission. The Company does not undertake any obligation to publicly update or revise any forward-looking statement, whether as a result of new information, future events or otherwise.

### **Item 9.01. Financial Statements and Exhibits.**

(d) Exhibits

- 3.1 [Certificate of Designation of Preferences, Rights and Limitations of Series D Preferred Stock](#)
  - 10.1 [Form of Securities Purchased Agreement, dated October 11, 2023, by and between the Company and the Investor](#)
  - 104 Cover Page Interactive Data File (embedded within the Inline XBRL document)
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## SIGNATURES

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, thereunto duly authorized.

Date: October 11, 2023

**OpGen, Inc.**

By: /s/ Albert Weber

Name: Albert Weber

Title: Chief Financial Officer

**OPGEN, INC.****CERTIFICATE OF DESIGNATION OF PREFERENCES,  
RIGHTS AND LIMITATIONS  
OF  
SERIES D CONVERTIBLE PREFERRED STOCK**

PURSUANT TO SECTION 151 OF THE  
DELAWARE GENERAL CORPORATION LAW

The undersigned, Oliver Schacht and Albert Weber, does hereby certify that:

1. He is the President of OpGen, Inc., a Delaware corporation (the "Corporation").
2. The Corporation is authorized to issue 10,000,000 shares of preferred stock, none of which have been issued.
3. The following resolutions were duly adopted by the board of directors of the Corporation (the "Board of Directors"):

WHEREAS, the certificate of incorporation of the Corporation provides for a class of its authorized stock known as preferred stock, consisting of 10,000,000 shares, \$0.01 par value per share, issuable from time to time in one or more series;

WHEREAS, the Board of Directors is authorized to fix the dividend rights, dividend rate, voting rights, conversion rights, rights and terms of redemption and liquidation preferences of any wholly unissued series of preferred stock and the number of shares constituting any series and the designation thereof, of any of them; and

WHEREAS, it is the desire of the Board of Directors, pursuant to its authority as aforesaid, to fix the rights, preferences, restrictions and other matters relating to a series of the preferred stock, which shall consist of, except as otherwise set forth in the Purchase Agreement, up to shares of the preferred stock which the Corporation has the authority to issue, as follows:

NOW, THEREFORE, BE IT RESOLVED, that the Board of Directors does hereby provide for the issuance of a series of preferred stock for cash or exchange of other securities, rights or property and does hereby fix and determine the rights, preferences, restrictions and other matters relating to such series of preferred stock as follows:

## TERMS OF PREFERRED STOCK

Section 1. Definitions. For the purposes hereof, the following terms shall have the following meanings:

“Affiliate” means any Person that, directly or indirectly through one or more intermediaries, controls or is controlled by or is under common control with a Person, as such terms are used in and construed under Rule 405 of the Securities Act.

“Beneficial Ownership Limitation” shall have the meaning set forth in Section 6(d).

“Business Day” means any day except any Saturday, any Sunday, any day which is a federal legal holiday in the United States or any day on which banking institutions in the State of New York are authorized or required by law or other governmental action to close.

“Cap” means the number of shares equal to 19.99% of the Corporation’s outstanding Common Stock as of the date of the Purchase Agreement (excluding for purposes of the calculation, any securities issued on such date).

“Certificate of Designation” means this Certificate of Designation of Preferences, Rights and Limitations of Series D Convertible Preferred Stock.

“Closing” means the closing of the purchase and sale of the Securities pursuant to Section 2.1 of the Purchase Agreement.

“Closing Date” means the Trading Day on which all of the Transaction Documents have been executed and delivered by the applicable parties thereto and all conditions precedent to (i) each Holder’s obligations to pay the Purchase Amount and (ii) the Corporation’s obligations to deliver the Securities have been satisfied or waived.

“Commission” means the United States Securities and Exchange Commission.

“Common Stock” means the Corporation’s common stock, par value \$0.01 per share, and stock of any other class of securities into which such securities may hereafter be reclassified or changed.

“Common Stock Equivalents” means any securities of the Corporation or the Subsidiaries which would entitle the holder thereof to acquire at any time Common Stock, including, without limitation, any debt, preferred stock, rights, options, warrants or other instrument that is at any time convertible into or exercisable or exchangeable for, or otherwise entitles the holder thereof to receive, Common Stock.

“Conversion Amount” means the sum of the Stated Value at issue.

“Conversion Date” shall have the meaning set forth in Section 6(a).

“Conversion Price” shall have the meaning set forth in Section 6(b).

“Conversion Shares” means, collectively, the shares of Common Stock issuable upon conversion of the shares of Preferred Stock in accordance with the terms hereof.

“Deemed Liquidation Event” means a merger or consolidation in which (i) the Corporation is a constituent party or (ii) a subsidiary of the Corporation is a constituent party and the Corporation issues shares of its capital stock pursuant to such merger or consolidation, except any such merger or consolidation involving the Corporation or a subsidiary in which the shares of capital stock of the Corporation outstanding immediately prior to such merger or consolidation continue to represent, or are converted into or exchanged for shares of capital stock that represent, immediately following such merger or consolidation, at least a majority, by voting power, of the capital stock of (1) the surviving or resulting corporation; or (2) if the surviving or resulting corporation is a wholly owned subsidiary of another corporation immediately following such merger or consolidation, the parent corporation of such surviving or resulting corporation.

“Exchange Act” means the Securities Exchange Act of 1934, as amended, and the rules and regulations promulgated thereunder.

“GAAP” means United States generally accepted accounting principles.

“Holder” shall have the meaning given such term in Section 2.

“Liquidation” shall have the meaning set forth in Section 5.

“New York Courts” shall have the meaning set forth in Section 9(d).

“Notice of Conversion” shall have the meaning set forth in Section 6(a).

“Person” means an individual or corporation, partnership, trust, incorporated or unincorporated association, joint venture, limited liability company, joint stock company, government (or an agency or subdivision thereof) or other entity of any kind.

“Preferred Stock” shall have the meaning set forth in Section 2.

“Purchase Agreement” means the Securities Purchase Agreement, dated as of October 11, 2023, among the Corporation and the original Holders, as amended, modified or supplemented from time to time in accordance with its terms.

“Purchase Amount” shall mean, as to each Holder, the aggregate amount to be paid for the Preferred Stock purchased pursuant to the Purchase Agreement in United States dollars and in immediately available funds.

“Requisite Approval” means the date that the Corporation’s stockholders first approve of the issuance of all of the Conversion Shares pursuant to the Purchase Agreement.

“Securities” means the Preferred Stock and the Conversion Shares.

“Securities Act” means the Securities Act of 1933, as amended, and the rules and regulations promulgated thereunder.

“Share Delivery Date” shall have the meaning set forth in Section 6(c).

“Stated Value” shall have the meaning set forth in Section 2.

“Subsidiary” means any subsidiary of the Corporation and shall, where applicable, also include any direct or indirect subsidiary of the Corporation formed or acquired after the date of the Purchase Agreement.

“Trading Day” means a day on which the principal Trading Market is open for business.

“Trading Market” means any of the following markets or exchanges on which the Common Stock is listed or quoted for trading on the date in question: the NYSE American, the Nasdaq Capital Market, the Nasdaq Global Market, the Nasdaq Global Select Market, or the New York Stock Exchange (or any successors to any of the foregoing).

“Transaction Documents” means this Certificate of Designation, the Purchase Agreement, all exhibits and schedules thereto and hereto and any other documents or agreements executed in connection with the transactions contemplated pursuant to the Purchase Agreement.

“Transfer Agent” means Pacific Stock Transfer, Inc., the current transfer agent of the Company, with a mailing address of 6725 Via Austi Parkway, Suite 300, Las Vegas, NV 89119, and any successor transfer agent of the Corporation.

Section 2. Designation, Amount and Par Value. The series of preferred stock shall be designated as its Series D Convertible Preferred Stock (the “Preferred Stock”) and the number of shares so designated shall be up to 1,000 (which shall not be subject to increase without the written consent of all of the holders of a majority of the then outstanding shares of the Preferred Stock (each, a “Holder” and collectively, the “Holders”). Each share of Preferred Stock shall have a par value of \$0.01 per share and a stated value equal to \$1,000 (the “Stated Value”).

Section 3. Dividends. Except for stock dividends or distributions for which adjustments are to be made pursuant to Section 7, Holders shall be entitled to receive, and the Corporation shall pay, dividends on shares of Preferred Stock equal (on an as-if-converted-to-Common-Stock basis, disregarding for such purpose any conversion limitations hereunder) to and in the same form as dividends actually paid on shares of the Common Stock when, as and if such dividends are paid on shares of the Common Stock. No other dividends shall be paid on shares of Preferred Stock. The Corporation shall not pay any dividends on the Common Stock unless the Corporation simultaneously complies with this provision.

Section 4. Voting Rights. The holders of Preferred Shares shall be entitled to notice of all stockholder meetings at which holders of Common Stock shall be entitled to vote. Subject to the last sentence of this Section 4, each holder of Preferred Stock shall be entitled to vote such Preferred Stock on an as-converted basis (based upon the aggregate number of Conversion Shares into which such holder’s shares of Preferred Stock are then convertible, giving effect to any limitations on conversion set forth above with respect to all matters on which holders of Common Stock are entitled to vote, voting together with the Common Stock as a single class, and shall otherwise be entitled to such voting rights as required by applicable law. Unless and until the Corporation has obtained the Requisite Approval, the number of shares of Common Stock that shall be deemed issued upon conversion of the Preferred Stock (for purposes of calculating the number of aggregate votes the Holders of Preferred Stock are entitled to on an as-converted basis) will be equal to that number of shares equal to the Cap, which each such Holder being able to vote the number of shares of Preferred Stock held by it relative to the total number of shares of Preferred Stock then outstanding multiplied by the Cap.

Section 5. Liquidation.

a) Prior to the Requisite Approval, in the event of any voluntary or involuntary liquidation, dissolution or winding up of the Corporation, including a change of control transaction, or Deemed Liquidation Event (any such event, a “Liquidation”), the holders of shares of Preferred Stock then outstanding shall be entitled to be paid out of the assets of the Corporation available for distribution to its stockholders, and in the event of a Deemed Liquidation Event, the holders of shares of Preferred Stock then outstanding shall be entitled to be paid out of the consideration payable to stockholders in such Deemed Liquidation Event or the other proceeds available for distribution to stockholders, before any payment shall be made to the holders of any other shares of capital stock of the Corporation by reason of their ownership thereof, such amount per share as would have been payable had all shares of Preferred Stock been converted into Common Stock (without regard to any limitations on conversion set forth herein or otherwise) pursuant to Section 6 immediately prior to such Liquidation. If upon any such Liquidation, the assets of the Corporation available for distribution to its stockholders shall be insufficient to pay the holders of shares of Preferred Stock the full amount payable pursuant to the immediately preceding sentence, the holders of shares of Preferred Stock shall share ratably in any distribution of the assets available for distribution in proportion to the respective amounts which would otherwise be payable in respect of the shares held by them upon such distribution if all amounts payable on or with respect to such shares were paid in full. After the payment in full of all amounts due under this Section 5, the remaining assets of the Corporation available for distribution to its stockholders or, in the case of a Deemed Liquidation Event, the consideration not payable to the holders of shares of Preferred Stock pursuant to the paragraph above shall be distributed among the holders of shares of Common Stock, pro rata based on the number of shares held by each such holder.



b) Following the Requisite Approval, upon any Liquidation, the assets of the Corporation available for distribution to its stockholders shall be distributed among the holders of the shares of Preferred Stock and Common Stock, pro rata, in the same form of consideration, based on the number of shares held by each such holder, treating for this purpose all shares of Preferred Stock as if they had been converted to Common Stock pursuant to the terms of this Certificate of Designation immediately prior to such Liquidation, without regard to any limitations on conversion set forth herein or otherwise.

Section 6.        Conversion.

a)        Conversions at Option of Holder. Each share of Preferred Stock shall be convertible, at any time and from time to time, at the option of the Holder thereof, into that number of shares of Common Stock (prior to the receipt of the Requisite Approval, subject to the limitations set forth in Section 6(d)) determined by dividing the Stated Value of such share of Preferred Stock by the Conversion Price. Holders shall effect conversions by providing the Corporation with the form of conversion notice attached hereto as Annex A (a "Notice of Conversion"). Each Notice of Conversion shall specify the number of shares of Preferred Stock to be converted, the number of shares of Preferred Stock owned prior to the conversion at issue, the number of shares of Preferred Stock owned subsequent to the conversion at issue and the date on which such conversion is to be effected, which date may not be prior to the date the applicable Holder delivers by e-mail such Notice of Conversion to the Corporation (such date, the "Conversion Date"). If no Conversion Date is specified in a Notice of Conversion, the Conversion Date shall be the date that such Notice of Conversion to the Corporation is deemed delivered hereunder. No ink-original Notice of Conversion shall be required, nor shall any medallion guarantee (or other type of guarantee or notarization) of any Notice of Conversion form be required. The calculations and entries set forth in the Notice of Conversion shall control in the absence of manifest or mathematical error. To effect conversions of shares of Preferred Stock, a Holder shall not be required to surrender the certificate(s) representing the shares of Preferred Stock to the Corporation unless all of the shares of Preferred Stock represented thereby are so converted, in which case such Holder shall deliver the certificate representing such shares of Preferred Stock promptly following the Conversion Date at issue. Shares of Preferred Stock converted into Common Stock shall be canceled and shall not be reissued.

b)        Automatic Conversion. Upon receipt of the Requisite Approval, each share of Preferred Stock issued and outstanding shall automatically convert into that number of shares of Common Stock determined by dividing the Stated Value of such share of Preferred Stock by the Conversion Price.

c)        Conversion Price. The conversion price for the Preferred Stock shall equal \$0.409, subject to adjustment herein (the "Conversion Price").

c)        Mechanics of Conversion. The conversion price for the Preferred Stock shall equal \$0.409, subject to adjustment herein (the "Conversion Price").

i.        Delivery of Conversion Shares Upon Conversion. Not later than the earlier of (i) two (2) Trading Days and (ii) the number of Trading Days comprising the Standard Settlement Period (as defined below) after each Conversion Date (the "Share Delivery Date"), the Corporation shall deliver, or cause to be delivered, to the converting Holder the number of Conversion Shares being acquired upon the conversion of the Preferred Stock, which Conversion Shares shall be free of restrictive legends and trading restrictions. The Corporation shall deliver the Conversion Shares electronically through the Depository Trust Company or another established clearing corporation performing similar functions. As used herein, "Standard Settlement Period" means the standard settlement period, expressed in a number of Trading Days, on the Corporation's primary Trading Market with respect to the Common Stock as in effect on the date of delivery of the Notice of Conversion.

ii. Failure to Deliver Conversion Shares. If, in the case of any Notice of Conversion, such Conversion Shares are not delivered to or as directed by the applicable Holder by the Share Delivery Date, the Holder shall be entitled to elect by written notice to the Corporation at any time on or before its receipt of such Conversion Shares, to rescind such Conversion, in which event the Corporation shall promptly return to the Holder any original Preferred Stock certificate delivered to the Corporation and the Holder shall promptly return to the Corporation the Conversion Shares issued to such Holder pursuant to the rescinded Notice of Conversion.

iii. Obligation Absolute; Partial Liquidated Damages. The Corporation's obligation to issue and deliver the Conversion Shares upon conversion of Preferred Stock in accordance with the terms hereof are absolute and unconditional, irrespective of any action or inaction by the Holder to enforce the same, any waiver or consent with respect to any provision hereof, the recovery of any judgment against any Person or any action to enforce the same, or any setoff, counterclaim, recoupment, limitation or termination, or any breach or alleged breach by the Holder or any other Person of any obligation to the Corporation or any violation or alleged violation of law by such holder or any other Person, and irrespective of any other circumstance which might otherwise limit such obligation of the Corporation to the Holder in connection with the issuance of such Conversion Shares. If the Corporation fails to deliver to the Holder such Conversion Shares on the Share Delivery Date applicable to such conversion, the Corporation shall pay to the Holder, in cash, as liquidated damages and not as a penalty, for each \$1,000 of Stated Value of the Preferred Stock being converted, \$10 per trading day (increasing to \$20 per trading day on the third trading day after the Share Delivery Date) for each trading day after the Share Delivery Date until such Conversion Shares are delivered or holder rescinds such conversion. Nothing herein shall limit the Holder's right to pursue actual damages for the Corporation's failure to deliver Conversion Shares within the period specified herein and such holder shall have the right to pursue all remedies available to it hereunder, at law or in equity including, without limitation, a decree of specific performance or injunctive relief. The exercise of any such rights shall not prohibit a holder from seeking to enforce damages pursuant to any other Section hereof or under applicable law.

iv. Reservation of Shares Issuable Upon Conversion. Until no shares of Preferred Stock remain outstanding, the Corporation covenants that it will at all times reserve and keep available out of its authorized and unissued shares of Common Stock for the sole purpose of issuance upon conversion of the Preferred Stock as herein provided, free from preemptive rights or any other actual contingent purchase rights of Persons other than the Holder (and the other holders of the Preferred Stock), not less than such aggregate number of shares of the Common Stock as shall (subject to the terms and conditions set forth in the Purchase Agreement) be issuable (taking into account the adjustments and restrictions of Section 7) upon the conversion of the then outstanding shares of Preferred Stock. The Corporation covenants that all shares of Common Stock that shall be so issuable shall, upon issue, be duly authorized, validly issued, fully paid and non-assessable.

v. Fractional Shares. No fractional shares or scrip representing fractional shares shall be issued upon the conversion of the Preferred Stock. As to any fraction of a share which the Holder would otherwise be entitled to purchase upon such conversion, the Corporation shall at its election, either pay a cash adjustment in respect of such final fraction in an amount equal to such fraction multiplied by the Conversion Price or round up to the next whole share. Notwithstanding anything to the contrary contained herein, but consistent with the provisions of this subsection with respect to fractional Conversion Shares, nothing shall prevent any Holder from converting fractional shares of Preferred Stock.

vi. Transfer Taxes and Expenses. The issuance of Conversion Shares on conversion of the Preferred Stock shall be made without charge to any Holder for any documentary stamp or similar taxes that may be payable in respect of the issue or delivery of such Conversion Shares, provided that the Corporation shall not be required to pay any tax that may be payable in respect of any transfer involved in the issuance and delivery of any such Conversion Shares upon conversion in a name other than that of the Holders of such shares of Preferred Stock and the Corporation shall not be required to issue or deliver such Conversion Shares unless or until the Person or Persons requesting the issuance thereof shall have paid to the Corporation the amount of such tax or shall have established to the satisfaction of the Corporation that such tax has been paid. The Corporation shall pay all Transfer Agent fees required for same-day processing of any Notice of Conversion and all fees to the Depository Trust Company (or another established clearing corporation performing similar functions) required for same-day electronic delivery of the Conversion Shares.

e) Beneficial Ownership Limitation. Prior to receipt of the Requisite Approval, the Corporation shall not effect any conversion of the Preferred Stock, and a Holder shall not have the right to convert any portion of the Preferred Stock, to the extent that, after giving effect to the conversion set forth on the applicable Notice of Conversion, such Holder (together with such Holder's Affiliates, and any Persons acting as a group together with such Holder or any of such Holder's Affiliates (such Persons, "Attribution Parties")) would beneficially own in excess of the Beneficial Ownership Limitation (as defined below). For purposes of the foregoing sentence, the number of shares of Common Stock beneficially owned by such Holder and its Affiliates and Attribution Parties shall include the number of shares of Common Stock issuable upon conversion of the Preferred Stock with respect to which such determination is being made, but shall exclude the number of shares of Common Stock which are issuable upon (i) conversion of the remaining, unconverted Stated Value of Preferred Stock beneficially owned by such Holder or any of its Affiliates or Attribution Parties and (ii) exercise or conversion of the unexercised or unconverted portion of any other securities of the Corporation subject to a limitation on conversion or exercise analogous to the limitation contained herein (including, without limitation, the Preferred Stock) beneficially owned by such Holder or any of its Affiliates or Attribution Parties. Except as set forth in the preceding sentence, for purposes of this Section 6(e), beneficial ownership shall be calculated in accordance with Section 13(d) of the Exchange Act and the rules and regulations promulgated thereunder. To the extent that the limitation contained in this Section 6(e) applies, the determination of whether the Preferred Stock is convertible (in relation to other securities owned by such Holder together with any Affiliates and Attribution Parties) and of how many shares of Preferred Stock are convertible shall be in the sole discretion of such Holder, and the submission of a Notice of Conversion shall be deemed to be such Holder's determination of whether the shares of Preferred Stock may be converted (in relation to other securities owned by such Holder together with any Affiliates and Attribution Parties) and how many shares of the Preferred Stock are convertible, in each case subject to the Beneficial Ownership Limitation. To ensure compliance with this restriction, each Holder will be deemed to represent to the Corporation each time it delivers a Notice of Conversion that such Notice of Conversion has not violated the restrictions set forth in this paragraph and the Corporation shall have no obligation to verify or confirm the accuracy of such determination. In addition, a determination as to any group status as contemplated above shall be determined in accordance with Section 13(d) of the Exchange Act and the rules and regulations promulgated thereunder. For purposes of this Section 6(e), in determining the number of outstanding shares of Common Stock, a Holder may rely on the number of outstanding shares of Common Stock as stated in the most recent of the following: (i) the Corporation's most recent periodic or annual report filed with the Commission, as the case may be, (ii) a more recent public announcement by the Corporation or (iii) a more recent written notice by the Corporation or the Transfer Agent setting forth the number of shares of Common Stock outstanding. Upon the written or oral request of a Holder, the Corporation shall within one Trading Day confirm orally and in writing to such Holder the number of shares of Common Stock then outstanding. In any case, the number of outstanding shares of Common Stock shall be determined after giving effect to the conversion or exercise of securities of the Corporation, including the Preferred Stock, by such Holder or its Affiliates or Attribution Parties since the date as of which such number of outstanding shares of Common Stock was reported. The "Beneficial Ownership Limitation" shall be 19.99% of the number of shares of the Common Stock outstanding as of the date of the Purchase Agreement (excluding for purposes of the calculation, any securities issued on such date). The provisions of this paragraph shall be construed and implemented in a manner otherwise than in strict conformity with the terms of this Section 6(e) to correct this paragraph (or any portion hereof) which may be defective or inconsistent with the intended Beneficial Ownership Limitation contained herein or to make changes or supplements necessary or desirable to properly give effect to such limitation. The limitations contained in this paragraph shall apply to a successor holder of Preferred Stock.

Section 7. Certain Adjustments.

a) Stock Dividends and Stock Splits. If the Corporation, at any time while this Preferred Stock is outstanding: (i) pays a stock dividend or otherwise makes a distribution or distributions that is payable in shares of Common Stock on shares of Common Stock or any other Common Stock Equivalents (which, for avoidance of doubt, shall not include any shares of Common Stock issued by the Corporation upon conversion of, or payment of a dividend on, this Preferred Stock), (ii) subdivides outstanding shares of Common Stock into a larger number of shares, (iii) combines (including by way of a reverse stock split) outstanding shares of Common Stock into a smaller number of shares, or (iv) issues, in the event of a reclassification of shares of the Common Stock, any shares of capital stock of the Corporation, then the Conversion Price shall be multiplied by a fraction of which the numerator shall be the number of shares of Common Stock (excluding any treasury shares of the Corporation) outstanding immediately before such event, and of which the denominator shall be the number of shares of Common Stock outstanding immediately after such event. Any adjustment made pursuant to this Section 7(a) shall become effective immediately after the record date for the determination of stockholders entitled to receive such dividend or distribution and shall become effective immediately after the effective date in the case of a subdivision, combination or re-classification.

b) [RESERVED]

c) Subsequent Rights Offerings. In addition to any adjustments pursuant to Section 7(a) above, if at any time the Corporation grants, issues or sells any Common Stock Equivalents or rights to purchase stock, warrants, securities or other property pro rata to the record holders of any class of shares of Common Stock (the "Purchase Rights"), then the Holder will be entitled to acquire, upon the terms applicable to such Purchase Rights, the aggregate Purchase Rights which the Holder could have acquired if the Holder had held the number of shares of Common Stock acquirable upon complete conversion of such Holder's Preferred Stock (without regard to any limitations on exercise hereof, including without limitation, the Beneficial Ownership Limitation) immediately before the date on which a record is taken for the grant, issuance or sale of such Purchase Rights, or, if no such record is taken, the date as of which the record holders of shares of Common Stock are to be determined for the grant, issue or sale of such Purchase Rights (provided, however, that, to the extent that the Holder's right to participate in any such Purchase Right would result in the Holder exceeding the Beneficial Ownership Limitation prior to the receipt of the Requisite Approval, then the Holder shall not be entitled to participate in such Purchase Right to such extent (or beneficial ownership of such shares of Common Stock as a result of such Purchase Right to such extent) and such Purchase Right to such extent shall be held in abeyance for the Holder until such time, if ever, as its right thereto would not result in the Holder exceeding the Beneficial Ownership Limitation).

d) Pro Rata Distributions. During such time as this Preferred Stock is outstanding, if the Corporation declares or makes any dividend or other distribution of its assets (or rights to acquire its assets) to holders of shares of Common Stock, by way of return of capital or otherwise (including, without limitation, any distribution of cash, stock or other securities, property or options by way of a dividend, spin off, reclassification, corporate rearrangement, scheme of arrangement or other similar transaction) (a "Distribution"), at any time after the issuance of this Preferred Stock, then, in each such case, the Holder shall be entitled to participate in such Distribution to the same extent that the Holder would have participated therein if the Holder had held the number of shares of Common Stock acquirable upon complete conversion of this Preferred Stock (without regard to any limitations on conversion hereof, including without limitation, the Beneficial Ownership Limitation) immediately before the date of which a record is taken for such Distribution, or, if no such record is taken, the date as of which the record holders of shares of Common Stock are to be determined for the participation in such Distribution (provided, however, that, to the extent that the Holder's right to participate in any such Distribution would result in the Holder exceeding the Beneficial Ownership Limitation prior to the receipt of the Requisite Approval, then the Holder shall not be entitled to participate in such Distribution to such extent (or in the beneficial ownership of any shares of Common Stock as a result of such Distribution to such extent) and the portion of such Distribution shall be held in abeyance for the benefit of the Holder until such time, if ever, as its right thereto would not result in the Holder exceeding the Beneficial Ownership Limitation).

e) Calculations. All calculations under this Section 7 shall be made to the nearest cent or the nearest 1/100th of a share, as the case may be. For purposes of this Section 7, the number of shares of Common Stock deemed to be issued and outstanding as of a given date shall be the sum of the number of shares of Common Stock (excluding any treasury shares of the Corporation) issued and outstanding.

f) Notice to the Holders.

i. Adjustment to Conversion Price. Whenever the Conversion Price is adjusted pursuant to any provision of this Section 7, the Corporation shall promptly deliver to each Holder by facsimile or email a notice setting forth the Conversion Price after such adjustment and setting forth a brief statement of the facts requiring such adjustment.

ii. Notice to Allow Conversion by Holder. If (A) the Corporation shall declare a dividend (or any other distribution in whatever form) on the Common Stock, (B) the Corporation shall declare a special nonrecurring cash dividend on or a redemption of the Common Stock, (C) the Corporation shall authorize the granting to all holders of the Common Stock of rights or warrants to subscribe for or purchase any shares of capital stock of any class or of any rights, (D) the approval of any stockholders of the Corporation shall be required in connection with any reclassification of the Common Stock, any consolidation or merger to which the Corporation is a party, any sale or transfer of all or substantially all of the assets of the Corporation (and all of its Subsidiaries, taken as a whole), or any compulsory share exchange whereby the Common Stock is converted into other securities, cash or property or (E) the Corporation shall authorize the voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Corporation, then, in each case, the Corporation shall cause to be filed at each office or agency maintained for the purpose of conversion of the Preferred Stock, and shall cause to be delivered by facsimile or email to each Holder at its last facsimile number or email address as it shall appear upon the stock books of the Corporation, at least twenty (20) calendar days prior to the applicable record or effective date hereinafter specified, a notice stating (x) the date on which a record is to be taken for the purpose of such dividend, distribution, redemption, rights or warrants, or if a record is not to be taken, the date as of which the holders of the Common Stock of record to be entitled to such dividend, distributions, redemption, rights or warrants are to be determined or (y) the date on which such reclassification, consolidation, merger, sale, transfer or share exchange is expected to become effective or close, and the date as of which it is expected that holders of the Common Stock of record shall be entitled to exchange their shares of the Common Stock for securities, cash or other property deliverable upon such reclassification, consolidation, merger, sale, transfer or share exchange, provided that the failure to deliver such notice or any defect therein or in the delivery thereof shall not affect the validity of the corporate action required to be specified in such notice. The Holder shall remain entitled to convert the Conversion Amount of this Preferred Stock (or any part hereof) during the 20-day period commencing on the date of such notice through the effective date of the event triggering such notice except as may otherwise be expressly set forth herein.

Section 9. Miscellaneous.

a) Notices. Any and all notices or other communications or deliveries to be provided by the Holders hereunder including, without limitation, any Notice of Conversion, shall be in writing and delivered personally, by facsimile or e-mail attachment, or sent by a nationally recognized overnight courier service, addressed to the Corporation, at 9717 Key West Ave, Suite 100, Rockville, MD 20850, Attention: Chief Executive Officer, or such e-mail address or address as the Corporation may specify for such purposes by notice to the Holders delivered in accordance with this Section 9. Any and all notices or other communications or deliveries to be provided by the Corporation hereunder shall be in writing and delivered personally, by e-mail attachment, or sent by a nationally recognized overnight courier service addressed to each Holder at the e-mail address or address of such Holder appearing on the books of the Corporation, or if no such e-mail address or address appears on the books of the Corporation, at the principal place of business of such Holder, as set forth in the Purchase Agreement. Any notice or other communication or deliveries hereunder shall be deemed given and effective on the earliest of (i) the time of transmission, if such notice or communication is delivered via e-mail attachment at the e-mail address set forth in this Section prior to 5:30 p.m. (New York City time) on any date, (ii) the next Trading Day after the time of transmission, if such notice or communication is delivered via e-mail attachment at the e-mail address set forth in this Section on a day that is not a Trading Day or later than 5:30 p.m. (New York City time) on any Trading Day, (iii) the second Trading Day following the date of mailing, if sent by U.S. nationally recognized overnight courier service, or (iv) upon actual receipt by the party to whom such notice is required to be given.

b) Absolute Obligation. Except as expressly provided herein, no provision of this Certificate of Designation shall alter or impair the obligation of the Corporation, which is absolute and unconditional, to pay liquidated damages and accrued dividends, as applicable, on the shares of Preferred Stock at the time, place, and rate, and in the coin or currency, herein prescribed.

c) Lost or Mutilated Preferred Stock Certificate. If a Holder's Preferred Stock certificate shall be mutilated, lost, stolen or destroyed, the Corporation shall execute and deliver, in exchange and substitution for and upon cancellation of a mutilated certificate, or in lieu of or in substitution for a lost, stolen or destroyed certificate, a new certificate for the shares of Preferred Stock so mutilated, lost, stolen or destroyed, but only upon receipt of evidence of such loss, theft or destruction of such certificate, and of the ownership hereof reasonably satisfactory to the Corporation (which shall not include the posting of any bond).

d) Governing Law. All questions concerning the construction, validity, enforcement and interpretation of this Certificate of Designation shall be governed by and construed and enforced in accordance with the internal laws of the State of Delaware, without regard to the principles of conflict of laws thereof. All legal proceedings concerning the interpretation, enforcement and defense of the transactions contemplated by any of the Transaction Documents (whether brought against a party hereto or its respective Affiliates, directors, officers, shareholders, employees or agents) shall be commenced in the state and federal courts sitting in the City of New York, Borough of Manhattan (the "New York Courts"). The Corporation and each Holder hereby irrevocably submits to the exclusive jurisdiction of the New York Courts for the adjudication of any dispute hereunder or in connection herewith or with any transaction contemplated hereby or discussed herein (including with respect to the enforcement of any of the Transaction Documents), and hereby irrevocably waives, and agrees not to assert in any suit, action or proceeding, any claim that it is not personally subject to the jurisdiction of such New York Courts, or such New York Courts are improper or inconvenient venue for such proceeding. The Corporation and each Holder hereby irrevocably waives personal service of process and consents to process being served in any such suit, action or proceeding by mailing a copy thereof via registered or certified mail or overnight delivery (with evidence of delivery) to such party at the address in effect for notices to it under this Certificate of Designation and agrees that such service shall constitute good and sufficient service of process and notice thereof. Nothing contained herein shall be deemed to limit in any way any right to serve process in any other manner permitted by applicable law. The Corporation and each Holder hereby irrevocably waives, to the fullest extent permitted by applicable law, any and all right to trial by jury in any legal proceeding arising out of or relating to this Certificate of Designation or the transactions contemplated hereby. If the Corporation or any Holder shall commence an action or proceeding to enforce any provisions of this Certificate of Designation, then the prevailing party in such action or proceeding shall be reimbursed by the other party for its attorneys' fees and other costs and expenses incurred in the investigation, preparation and prosecution of such action or proceeding.

e) Waiver. Any waiver by the Corporation or a Holder of a breach of any provision of this Certificate of Designation shall not operate as or be construed to be a waiver of any other breach of such provision or of any breach of any other provision of this Certificate of Designation or a waiver by any other Holders. The failure of the Corporation or a Holder to insist upon strict adherence to any term of this Certificate of Designation on one or more occasions shall not be considered a waiver or deprive that party (or any other Holder) of the right thereafter to insist upon strict adherence to that term or any other term of this Certificate of Designation on any other occasion. Any waiver by the Corporation or a Holder must be in writing.

f) Severability. If any provision of this Certificate of Designation is invalid, illegal or unenforceable, the balance of this Certificate of Designation shall remain in effect, and if any provision is inapplicable to any Person or circumstance, it shall nevertheless remain applicable to all other Persons and circumstances. If it shall be found that any interest or other amount deemed interest due hereunder violates the applicable law governing usury, the applicable rate of interest due hereunder shall automatically be lowered to equal the maximum rate of interest permitted under applicable law.

g) Next Business Day. Whenever any payment or other obligation hereunder shall be due on a day other than a Business Day, such payment shall be made on the next succeeding Business Day.

h) Headings. The headings contained herein are for convenience only, do not constitute a part of this Certificate of Designation and shall not be deemed to limit or affect any of the provisions hereof.

i) Status of Converted Preferred Stock. Shares of Preferred Stock may only be issued pursuant to the Purchase Agreement. If any shares of Preferred Stock shall be converted or reacquired by the Corporation, such shares shall resume the status of authorized but unissued shares of preferred stock and shall no longer be designated as Series D Convertible Preferred Stock.

\*\*\*\*\*

IN WITNESS WHEREOF, the undersigned have executed this Certificate this 11th day of October 2023.

By: /s/ Oliver Schacht  
Name: Oliver Schacht  
Title: Chief Executive Officer

By: /s/ Albert Weber  
Name: Albert Weber  
Title: Chief Financial Officer



ANNEX A

NOTICE OF CONVERSION

(TO BE EXECUTED BY THE REGISTERED HOLDER IN ORDER TO CONVERT SHARES OF PREFERRED STOCK)

The undersigned hereby elects to convert the number of shares of Series D Convertible Preferred Stock indicated below into shares of common stock, par value \$0.01 per share (the "Common Stock"), of OpGen, Inc., a Delaware corporation (the "Corporation"), according to the conditions hereof, as of the date written below. If shares of Common Stock are to be issued in the name of a Person other than the undersigned, the undersigned will pay all transfer taxes payable with respect thereto. No fee will be charged to the Holders for any conversion, except for any such transfer taxes.

Conversion calculations:

Date to Effect Conversion: \_\_\_\_\_

Number of shares of Preferred Stock owned prior to Conversion: \_\_\_\_\_

Number of shares of Preferred Stock to be Converted: \_\_\_\_\_

Stated Value of shares of Preferred Stock to be Converted: \_\_\_\_\_

Number of shares of Common Stock to be Issued: \_\_\_\_\_

Applicable Conversion Price: \_\_\_\_\_

Number of shares of Preferred Stock subsequent to Conversion: \_\_\_\_\_

Address for Delivery: \_\_\_\_\_

or

DWAC Instructions:

Broker no: \_\_\_\_\_

Account no: \_\_\_\_\_

[HOLDER]

By: \_\_\_\_\_

Name:

Title:

**PREFERRED STOCK PURCHASE AGREEMENT**

THE PREFERRED SHARES HAVE NOT BEEN REGISTERED UNDER THE SECURITIES ACT OF 1933 OR THE SECURITIES LAWS OF ANY STATE OR ANY OTHER JURISDICTION. THERE ARE FURTHER RESTRICTIONS ON THE TRANSFERABILITY OF SUCH SECURITIES DESCRIBED HEREIN.

This Preferred Stock Purchase Agreement (this “**Agreement**”), is made as of [ ], 2023 (the “**Effective Date**”), by and between each of **OpGen, Inc.** (the “**Company**”), as seller, and [ ] (the “**Purchaser**”). The Purchaser and the Company, each a “**Party**” and collectively the “**Parties**.”

In consideration of the mutual covenants contained herein and for other valuable consideration, the receipt of which is hereby acknowledged, the Parties hereto agree as follows:

1. Purchase and Sale of Preferred Stock.

1.1 Sale and Issuance of Preferred Stock.

(a) Prior to the Closing (as defined below), the Company shall adopt and file with the Secretary of State of the State of Delaware a Certificate of Designation, in the form of Exhibit A attached to this Agreement (the “**Certificate of Designation**”).

(b) Subject to the terms and conditions of this Agreement, the Purchaser agrees to purchase and the Company agrees to sell and issue to the Purchaser at the Closing 1,000 shares of Series D Preferred Stock of the Company, par value \$0.01 per share (the “**Series D Preferred Stock**”), at a purchase price of \$1,000 per share (the “**Purchase Price**”). The shares of Series D Preferred Stock issued to the Purchaser pursuant to this Agreement shall be referred to in this Agreement as the “**Shares**.”

1.2 Closing; Delivery.

(a) The purchase and sale of the Shares under this Agreement shall take place remotely via the exchange of documents and signatures, at 10:00 a.m. local time on the date hereof (the “**Closing**”).

(b) At the Closing, the Company shall either (i) deliver to the Purchaser a certificate representing the Shares or (ii) make the Shares available for “Delivery Versus Payment” settlement, in each case, against payment of the purchase price therefor by wire transfer to a bank account designated by the Company.

(c) Use of Proceeds. The proceeds from the sale of the Shares shall be used for working capital, and for other general corporate purposes, or as otherwise determined by the Board of Directors of the Company.

(d) Defined Terms Used in this Agreement. In addition to the terms defined elsewhere in this Agreement, the following terms used in this Agreement shall be construed to have the meanings set forth or referenced below.

- (i) “**Affiliate**” means, with respect to any specified Person, any other Person who or which, directly or indirectly, controls, is controlled by, or is under common control with such specified Person, as such terms are used in and construed under Rule 405 under the Securities Act.
- (ii) “**Code**” means the Internal Revenue Code of 1986, as amended.
- (iii) “**Common Stock**” means the common stock of the Company, par value \$0.01 per share.
- (iv) “**Company Intellectual Property**” means all patents, patent applications, trademarks, trademark applications, service marks, trade names, copyrights, trade secrets, licenses, domain names, mask works, information and proprietary rights and processes as are necessary to the conduct of the Company’s business as now conducted and as presently proposed to be conducted.

- (v) "**Key Employee**" means any executive-level employee of the Company.
- (vi) "**Knowledge**," including the phrase "to the Company's knowledge," shall mean the actual knowledge after reasonable investigation of the Key Employees.
- (vii) "**Material Adverse Effect**" means a material adverse effect on the business, assets (including intangible assets), liabilities, financial condition, property, prospects or results of operations of the Company.
- (viii) "**Person**" means any individual, corporation, partnership, trust, joint venture, limited liability company, association or other entity.
- (ix) "**Preferred Stock**" means any shares of preferred stock of the Company.
- (x) "**Securities Act**" means the Securities Act of 1933, as amended, and the rules and regulations promulgated thereunder.
- (xi) "**Transaction Agreements**" means this Agreement and any other document executed in connection with this Agreement.

2. **Representations and Warranties of the Company.** The Company hereby represents and warrants to the Purchaser that, except as set forth on the Disclosure Schedules delivered by the Company concurrently herewith, which exceptions shall be deemed to be part of the representations and warranties made hereunder, the following representations are true and complete as of the date of the Closing, except as otherwise indicated. The Disclosure Schedules shall be arranged in sections corresponding to the numbered and lettered sections and subsections contained in this Section 2, and the disclosures in any section or subsection of the Disclosure Schedule shall qualify other sections and subsections in this Section 2 only to the extent it is readily apparent from a reading of the disclosure that such disclosure is applicable to such other sections and subsections.

2.1 **Organization, Good Standing, Corporate Power and Qualification.** The Company is a corporation duly organized, validly existing and in good standing under the laws of the State of Delaware and has all requisite corporate power and authority to carry on its business as presently conducted and as proposed to be conducted. The Company is duly qualified to transact business and is in good standing in each jurisdiction in which the failure to so qualify would have a Material Adverse Effect.

2.2 **Capitalization.**

(a) The capitalization of the Company as of the date hereof is set forth on Section 2.2(a) of the Disclosure Schedules.

(b) The rights, privileges and preferences of the Series D Preferred Stock are as stated in the Restated Certificate and as provided by the General Corporation Law of the State of Delaware.

(c) The Company has furnished to the Purchaser complete and accurate copies of the Company's equity incentive plans and the forms of agreements used thereunder.

(d) Section 2.2(d) of the Disclosure Schedules sets forth the capitalization of the Company immediately following the Closing including the number of shares of the following: (i) issued and outstanding Common Stock, including, with respect to restricted Common Stock; (ii) granted stock options; (iii) issued and outstanding shares of each series of Preferred Stock; and (iv) issued and outstanding warrants or stock purchase rights, if any. Except for (A) the conversion privileges of the Shares to be issued under this Agreement, (B) the securities granted pursuant to the Company's equity incentive plans and (C) Section 2.2(d) of the Disclosure Schedules, there are no outstanding options, warrants, rights (including conversion or preemptive rights and rights of first refusal or similar rights) or agreements, orally or in writing, to purchase or acquire from the Company any shares of Common Stock or Preferred Stock, or any securities convertible into or exchangeable for shares of Common Stock or Preferred Stock.

(e) The Company has fully satisfied (including with respect to rights of timely notification) or obtained enforceable waivers in respect of any preemptive or similar rights directly or indirectly affecting the Shares covered by this Agreement and any of its other securities in connection with the transactions contemplated by this Agreement.

2.3 Authorization. All corporate action required to be taken by the Board of Directors and stockholders in order to authorize the Company to enter into the Transaction Agreements, and to issue the Shares at the Closing, and the Common Stock issuable upon conversion of the Shares (the "**Conversion Shares**"), has been taken or will be taken prior to the Closing. All action on the part of the officers of the Company necessary for the execution and delivery of the Transaction Agreements, the performance of all obligations of the Company under the Transaction Agreements to be performed as of the Closing, and the issuance and delivery of the Shares has been taken or will be taken prior to the Closing. The Transaction Agreements, when executed and delivered by the Company, shall constitute valid and legally binding obligations of the Company, enforceable against the Company in accordance with their respective terms except (i) as limited by applicable bankruptcy, insolvency, reorganization, moratorium, fraudulent conveyance, or other laws of general application relating to or affecting the enforcement of creditors' rights generally, or (ii) as limited by laws relating to the availability of specific performance, injunctive relief, or other equitable remedies.

2.4 Valid Issuance of Shares. The Shares, when issued, sold and delivered in accordance with the terms and for the consideration set forth in this Agreement, will be validly issued, fully paid and nonassessable and free of restrictions on transfer other than restrictions on transfer under the Transaction Agreements, applicable state and federal securities laws and liens or encumbrances created by or imposed by the Purchaser. Assuming the accuracy of the representations of the Purchaser in Section 3 of this Agreement and subject to the filings, the Shares will be issued in compliance with all applicable federal and state securities laws. The Conversion Shares will be duly reserved for issuance, and upon issuance in accordance with the terms of the Certificate of Designation and this Agreement, will be validly issued, fully paid and nonassessable and free of restrictions on transfer other than restrictions on transfer under the Transaction Agreements, applicable federal and state securities laws and liens or encumbrances created by or imposed by the Purchaser. Based in part upon the representations of the Purchaser in Section 3 of this Agreement, and subject to Section 2.6 below, the Conversion Shares will be issued in compliance with all applicable federal and state securities laws. No "Bad Actor" disqualifying event described in Rule 506(d)(1)(i) to (viii) of the Securities Act (a "**Disqualification Event**") is applicable to the Company, except for a Disqualification Event as to which Rule 506(d)(2)(ii-iv) or (d)(3), is applicable.

2.5 Governmental Consents and Filings. Assuming the accuracy of the representations made by the Purchaser in Section 3 of this Agreement, no consent, approval, order or authorization of, or registration, qualification, designation, declaration or filing with, any federal, state or local governmental authority is required on the part of the Company in connection with the consummation of the transactions contemplated by this Agreement, except for (i) the filing of the Certificate of Designation, which will have been filed as of the Closing, and (ii) filings pursuant to Regulation D of the Securities Act, and applicable state securities laws, which have been made or will be made, to the extent necessary, in a timely manner.

2.6 Litigation. There is no claim, action, suit, proceeding, arbitration, complaint, charge or investigation pending or to the Company's Knowledge, currently threatened (i) against the Company or any officer, director or Key Employee of the Company; or (ii) to the Company's Knowledge, that questions the validity of the Transaction Agreements, or the right of the Company to enter into them, or to consummate the transactions contemplated by the Transaction Agreements; or (iii) to the Company's Knowledge, that would reasonably be expected to have, either individually or in the aggregate, a Material Adverse Effect. Neither the Company nor, to the Company's Knowledge, any of its officers or directors, is a party or is named as subject to the provisions of any order, writ, injunction, judgment or decree of any court or government agency or instrumentality (in the case of officers or directors, such as would affect the Company). There is no action, suit, proceeding or investigation by the Company pending or which the Company intends to initiate. The foregoing includes, without limitation, actions, suits, proceedings or investigations pending or threatened in writing (or any basis therefor known to the Company) involving the prior employment of any of the Company's employees, their services provided in connection with the Company's business, or any information or techniques allegedly proprietary to any of their former employers, or their obligations under any agreements with prior employers.

2.7 Intellectual Property. For purposes of this Section 2.6, the Company shall be deemed to have knowledge of a patent right if the Company has actual knowledge of the patent right or would be found to be on notice of such patent right as determined by reference to United States patent laws.

(a) The Company and its subsidiaries own or possess or believe they can acquire on commercially reasonable terms sufficient legal rights to all Company Intellectual Property without any known conflict with, or infringement of, the rights of others.

(b) To the Company's Knowledge, no product or service marketed or sold (or proposed to be marketed or sold) by the Company violates or will violate any license or infringes or will infringe any intellectual property rights of any other party.

(c) The Company has not received any written communications alleging that the Company has violated or, by conducting its business, would violate any of the patents, trademarks, service marks, tradenames, copyrights, trade secrets, mask works or other proprietary rights or processes of any other Person.

(d) The Company and its subsidiaries have obtained and possess valid licenses to use all of the software programs present on the computers and other software-enabled electronic devices that it owns or leases or that it has otherwise provided to its employees for their use in connection with the Company's business- as now conducted.

(e) A complete and accurate summary of all material Company Intellectual Property is included in the Company's SEC Reports (as defined below).

(f) To the Company's Knowledge, it will not be necessary to use any inventions of any of its employees or consultants (or Persons it currently intends to hire) made prior to their employment by the Company. Each employee and consultant has assigned to the Company all intellectual property rights he or she owns that are related to the Company's business as now conducted and as presently proposed to be conducted.

2.8 Compliance with Other Instruments. The Company is not in violation or default (i) of any provisions of its certificate of incorporation, as amended, or bylaws, as amended, (ii) of any judgment, order, writ or decree of any court, arbitrator or other governmental authority, (iii) under any note, indenture or mortgage, or (iv) under any lease, agreement, contract or purchase order to which it is a party or by which it is bound that is required to be listed on the Disclosure Schedule, or, (v) to the Company's Knowledge, of any provision of federal or state statute, rule or regulation applicable to the Company, except in each case as would not have or reasonably be expected to have a Material Adverse Effect. The execution, delivery and performance of the Transaction Agreements, and the consummation of the transactions contemplated by the Transaction Agreements, will not result in any such violation or be in conflict with or constitute, with or without the passage of time and giving of notice, either (i) a default under any such judgment, order, writ, decree, contract or agreement or (ii) an event which results in the creation of any lien, charge or encumbrance upon any assets of the Company or the suspension, revocation, forfeiture, or non-renewal of any material permit or license applicable to the Company, except in each case as would not have or reasonably be expected to result in a Material Adverse Effect.

## 2.9 Agreements; Actions.

(a) Except for the Transaction Agreements or as set forth on Section 2.9(a) of the Disclosure Schedules, there are no agreements, understandings, instruments, contracts or proposed transactions to which the Company is a party or by which it is bound that involve (i) obligations (contingent or otherwise) of, or payments to, the Company in excess of \$50,000, (ii) the license of any patent, copyright, trademark, trade secret or other proprietary right to or from the Company, or (iii) the grant of rights to manufacture, produce, assemble, license, market, or sell its products to any other Person that limit the Company's exclusive right to develop, manufacture, assemble, distribute, market or sell its products.

(b) Except as disclosed in the Company's reports, schedules, forms, statements and documents filed under the Securities Act and the Securities Exchange Act of 1934, as amended (collectively, the "**SEC Reports**"), the Company has not (i) declared or paid any dividends, or authorized or made any distribution upon or with respect to any class or series of its capital stock, (ii) incurred any indebtedness for money borrowed or incurred any other liabilities individually in excess of \$50,000 or in excess of \$100,000 in the aggregate, (iii) made any loans or advances to any Person, other than ordinary advances for travel expenses, or (iv) sold, exchanged or otherwise disposed of any of its assets or rights, other than the sale of its inventory in the ordinary course of business. For the purposes of subsections (b) and (c) of this Section 2.9, all indebtedness, liabilities, agreements, understandings, instruments, contracts and proposed transactions involving the same Person (including Persons the Company has reason to believe are affiliated with each other) shall be aggregated for the purpose of meeting the individual minimum dollar amounts of such subsection.

#### 2.10 Certain Transactions.

(a) Except as disclosed in the Company's SEC Reports or as set forth on Section 2.10 of the Disclosure Schedules, other than (i) standard employee benefits generally made available to all employees, (ii) standard director and officer indemnification agreements approved by the Board of Directors and (iii) the purchase of shares of the Company's capital stock and the issuance of options to purchase shares of the Company's Common Stock, in each instance, approved by the Board of Directors (previously made available to the Purchaser or its counsel), there are no agreements, understandings or proposed transactions between the Company and any of its officers, directors or Key Employees, or any Affiliate thereof.

(b) The Company is not indebted, directly or indirectly, to any of its directors, officers or employees or to their respective spouses or children or to any Affiliate of any of the foregoing, other than in connection with expenses or advances of expenses incurred in the ordinary course of business or employee relocation expenses and for other customary employee benefits made generally available to all employees. None of the Company's directors, officers or employees, or any members of their immediate families, or any Affiliate of the foregoing (i) are, directly or indirectly, indebted to the Company or, (ii) to the Company's Knowledge, have any direct or indirect ownership interest in any firm or corporation with which the Company is affiliated or with which the Company has a business relationship, or any firm or corporation which competes with the Company except that directors, officers or employees or stockholders of the Company may own stock in (but not exceeding two percent (2%) of the outstanding capital stock of) publicly traded companies that may compete with the Company. To the Company's Knowledge, none of the Company's Key Employees or directors or any members of their immediate families or any Affiliate of any of the foregoing are, directly or indirectly, have any financial interest in any material contract with the Company other than in connection with such Person's capacity as an employee, director, or officer of the Company. To the Company's Knowledge, none of the directors or officers, or any members of their immediate families, has any material commercial, industrial, banking, consulting, legal, accounting, charitable or familial relationship with any of the Company's customers, suppliers, service providers, joint venture partners, licensees and competitors.

2.11 Financial Statements. The Company's audited financial statements for the fiscal year ended December 31, 2022, and its unaudited interim financial statements as of and for the six-month period ended June 30, 2023 have been filed with the SEC Reports (collectively, the "**Financial Statements**"). The Financial Statements have been prepared in accordance with U.S. generally accepted accounting principles ("**GAAP**") applied on a consistent basis throughout the periods indicated, except that the unaudited Financial Statements may not contain all footnotes required by GAAP or as may otherwise be specified in such Financial Statements. The Financial Statements fairly present in all material respects the financial condition and operating results of the Company as of the dates, and for the periods, indicated therein, subject in the case of the unaudited Financial Statements to normal year-end audit adjustments. Except as set forth in the Financial Statements, the Company has no material liabilities or obligations, contingent or otherwise, other than (i) liabilities incurred in the ordinary course of business; (ii) obligations under contracts and commitments incurred in the ordinary course of business; and (iii) liabilities and obligations of a type or nature not required under GAAP to be reflected in the Financial Statements, which, in all such cases, individually and in the aggregate would not have a Material Adverse Effect. The Company maintains and will continue to maintain a standard system of accounting established and administered in accordance with GAAP.

2.12 Employee Matters.

(a) Section 2.12(a) of the Disclosure Schedules sets forth the number of full-time and part-time employees, consultants and independent contractors of the Company as of the date hereof. Section 2.12(a) of the Disclosure Schedule sets forth a detailed description of all compensation, including salary, bonus, severance obligations and deferred compensation paid or payable for each officer, employee, consultant and independent contractor of the Company who is anticipated to receive compensation in excess of \$100,000 for the fiscal year ending December 31, 2023.

(b) To the Company's Knowledge, none of its employees are obligated under any contract (including licenses, covenants or commitments of any nature) or other agreement, or subject to any judgment, decree or order of any court or administrative agency, that would materially interfere with such employee's ability to promote the interest of the Company or that would conflict with the Company's business. Neither the execution or delivery of the Transaction Agreements, nor the carrying on of the Company's business by the employees of the Company, nor the conduct of the Company's business as now conducted and as presently proposed to be conducted will, to the Company's Knowledge, conflict with or result in a breach of the terms, conditions, or provisions of, or constitute a default under, any contract, covenant or instrument under which any such employee is now obligated.

(c) The Company is not delinquent in payments to any of its employees for any wages, salaries, commissions, bonuses, or other direct compensation for any service performed for it to the date hereof or amounts required to be reimbursed to such employees. The Company has complied in all material respects with all applicable state and federal equal employment opportunity laws and with other laws related to employment, including those related to wages, hours, worker classification, and collective bargaining. The Company has withheld and paid to the appropriate governmental entity or is holding for payment not yet due to such governmental entity all amounts required to be withheld from employees of the Company and is not liable for any arrears of wages, taxes, penalties, or other sums for failure to comply with any of the foregoing.

(d) The Company has not made any representations regarding equity incentives to any officer, employees, director or consultant that are inconsistent with the share amounts and terms set forth in the minutes (or written consents in lieu thereof) of the Board of Directors.

(e) To the extent there are former employees of the Company whose employment was terminated by the Company, each has entered into an agreement with the Company providing for the full release of any claims against the Company or any related party arising out of such employment.

(f) Section 2.12(f) of the Disclosure Schedules sets forth each employee benefit plan maintained, established or sponsored by the Company, or which the Company participates in or contributes to, which is subject to the Employee Retirement Income Security Act of 1974, as amended ("**ERISA**"). The Company has made all required contributions on a timely basis and has complied in all material respects with all applicable laws for any such employee benefit plan. Except as set forth on Section 2.12(f) of the Disclosure Schedules, the Company does not maintain any retiree health or life plans providing for continuing coverage or benefits for any employee after the employee's termination of employment, except to the extent such coverage is required by Part 6 of Title I(B) of ERISA.

(g) To the Company's Knowledge, none of the Key Employees or directors of the Company has been (a) subject to voluntary or involuntary petition under the federal bankruptcy laws or any state insolvency law or the appointment of a receiver, fiscal agent or similar officer by a court for his business or property; (b) convicted in a criminal proceeding or named as a subject of a pending criminal proceeding (excluding traffic violations and other minor offenses); (c) subject to any order, judgment, or decree (not subsequently reversed, suspended, or vacated) of any court of competent jurisdiction permanently or temporarily enjoining him from engaging, or otherwise imposing limits or conditions on his engagement in any securities, investment advisory, banking, insurance, or other type of business or acting as an officer or director of a public company; or (d) found by a court of competent jurisdiction in a civil action or by the Securities and Exchange Commission or the Commodity Futures Trading Commission to have violated any federal or state securities, commodities, or unfair trade practices law, which such judgment or finding has not been subsequently reversed, suspended, or vacated.

2.13 Tax Returns and Payments. The Company has timely paid all federal, state, county, local, foreign and other taxes required to be paid by it, whether or not assessed or disputed. The Company has set aside adequate reserves for all taxes that have accrued but are not yet due and payable. There have been no examinations or audits of any tax returns or reports by any applicable federal, state, local or foreign governmental agency and no such examinations or audits are currently pending. The Company has duly and timely filed all federal, state, county, local, foreign and other tax returns, reports, information statements or other documents, required to have been filed by it and there are in effect no waivers of applicable statutes of limitations with respect to taxes for any year. The Company has properly withheld and paid all taxes required to have been withheld and paid in connection with any amounts paid or credited to any employee, independent contractor, creditor, stockholder or other third party.

2.14 Insurance. The Company has in full force and effect or will obtain fire and casualty insurance policies with extended coverage, sufficient in amount (subject to reasonable deductions) to allow it to replace any of its properties that might be damaged or destroyed.

2.15 Confidential Information and Invention Assignment Agreements. Each current and former employee, consultant and officer of the Company has executed an agreement with the Company regarding confidentiality and proprietary information substantially in the form or forms made available to the Purchaser or counsel for the Purchaser (the "**Confidential Information Agreements**"). No current Key Employee has excluded works or inventions from his or her assignment of inventions pursuant to such Key Employee's Confidential Information Agreement. Oliver Schacht, the Company's current Chief Executive Officer, has executed that certain Employee Confidentiality, Noncompetition and Assignment Agreement, dated as of October 29, 2020, a true and complete copy of which has been delivered to counsel for the Purchaser, and such agreement has not been amended, modified or terminated, in whole or in part since such date. The Company is not aware that any of its Key Employees is in violation of any of his or her agreements with the Company covered by this Section 2.15.

2.16 Permits. The Company and each of its subsidiaries has all franchises, permits, licenses and any similar authority necessary for the conduct of its business, the lack of which could reasonably be expected to have a Material Adverse Effect. The Company is not in default in any material respect under any of such franchises, permits, licenses or other similar authority.

2.17 Corporate Documents. The Company's certificate of incorporation, as amended, and bylaws, as amended, are in the forms provided to the Purchaser. The copy of the minute books of the Company provided to the Purchaser contains minutes of all meetings of directors and stockholders and all actions by written consent without a meeting by the directors and stockholders at which any material action was taken (other than those that have not yet been adopted) in the last five (5) years and accurately reflects in all material respects all actions by the directors (and any committee of directors) and stockholders with respect to all transactions referred to in such minutes or written consents.

2.18 Real Property Holding Corporation. The Company is not now and has never been a "United States real property holding corporation" as defined in the Code and any applicable regulations promulgated thereunder. The Company has filed with the Internal Revenue Service all statements, if any, with its United States income tax returns which are required under such regulations.

2.19 Environmental and Safety Laws. Except as could not reasonably be expected to have a Material Adverse Effect (a) the Company is and has been in compliance with all Environmental Laws (as defined below); (b) there has been no release or threatened release of any pollutant, contaminant or toxic or hazardous material, substance or waste, or petroleum or any fraction thereof, (each a "**Hazardous Substance**") on, upon, into or from any site currently or heretofore owned, leased or otherwise used by the Company; (c) there have been no Hazardous Substances generated by the Company that have been disposed of or come to rest at any site that has been included in any published U.S. federal, state or local "superfund" site list or any other similar list of hazardous or toxic waste sites published by any governmental authority in the United States; and (d) there are no underground storage tanks located on, no polychlorinated biphenyls ("**PCBs**") or PCB-containing equipment used or stored on, and no hazardous waste as defined by the Resource Conservation and Recovery Act, as amended, stored on, any site owned or operated by the Company, except for the storage of hazardous waste in compliance with Environmental Laws. The Company has made available to the Purchaser true and complete copies of all material environmental records, reports, notifications, certificates of need, permits, pending permit applications, correspondence, engineering studies, and environmental studies or assessments.



For purposes of this Section 2.18, "**Environmental Laws**" means any law, regulation, or other applicable requirement relating to (a) releases or threatened release of Hazardous Substances; (b) pollution or protection of employee health or safety, public health or the environment; or (c) the manufacture, handling, transport, use, treatment, storage, or disposal of Hazardous Substances.

2.20 Disclosure. No representation or warranty of the Company contained in this Agreement, as qualified by the Disclosure Schedule, and no certificate furnished or to be furnished to the Purchaser at the Closing contains, as of the date of the Closing, any untrue statement of a material fact or omits to state a material fact necessary in order to make the statements contained herein or therein not misleading in light of the circumstances under which they were made. It is understood that this representation is qualified by the fact that the Company has not delivered to the Purchaser, and has not been requested to deliver, a private placement or similar memorandum or any written disclosure of the types of information customarily furnished to purchasers of securities.

2.21 Data Privacy. In connection with its collection, storage, transfer (including without limitation, any transfer across national borders) and/or use of any personally identifiable information from any individuals, including, without limitation, any customers, prospective customers, employees and/or other third parties (collectively, "**Personal Information**"), the Company is and has been, to the Company's Knowledge, in compliance in all material respects with all applicable laws in all relevant jurisdictions, the Company's privacy policies, and the requirements of any contract or codes of conduct to which the Company is a party. The Company has commercially reasonable physical, technical, organizational and administrative security measures and policies in place to protect all Personal Information collected by it or on its behalf from and against unauthorized access, use and/or disclosure. The Company is and has been, to the Company's Knowledge, in compliance in all material respects with all laws relating to data loss, theft and breach of security notification obligations.

2.22 FCPA. Neither the Company nor any of the Company's directors, officers, employees or agents have, directly or indirectly, made, offered, promised or authorized any payment or gift of any money or anything of value to or for the benefit of any "foreign official" (as such term is defined in the U.S. Foreign Corrupt Practices Act of 1977, as amended (the "**FCPA**")), foreign political party or official thereof or candidate for foreign political office for the purpose of (i) influencing any official act or decision of such official, party or candidate, (ii) inducing such official, party or candidate to use his, her or its influence to affect any act or decision of a foreign governmental authority, or (iii) securing any improper advantage, in the case of (i), (ii) and (iii) above in order to assist the Company or any of its affiliates in obtaining or retaining business for or with, or directing business to, any Person. Neither the Company nor any of its directors, officers, employees or agents have made or authorized any bribe, rebate, payoff, influence payment, kickback or other unlawful payment of funds or received or retained any funds in violation of any law, rule or regulation. Neither the Company, or, to the Company's Knowledge, any of its officers, directors or employees are the subject of any allegation, voluntary disclosure, investigation, prosecution or other enforcement action related to the FCPA or any other anti-corruption law.

3. Representations and Warranties of the Purchaser. The Purchaser hereby represents and warrants to the Company as of the date hereof and as of the Closing that:

3.1 Authorization. The Purchaser has full power and authority to enter into the Transaction Agreements to which the Purchaser is a party. The Transaction Agreements to which the Purchaser is a party, when executed and delivered by the Purchaser, will constitute valid and legally binding obligations of the Purchaser, enforceable in accordance with their terms, except as limited by applicable bankruptcy, insolvency, reorganization, moratorium, fraudulent conveyance, and any other laws of general application affecting enforcement of creditors' rights generally, and as limited by laws relating to the availability of specific performance, injunctive relief, or other equitable remedies.

3.2 Purchase Entirely for Own Account. This Agreement is made with the Purchaser in reliance upon the Purchaser's representation to the Company, which by the Purchaser's execution of this Agreement, the Purchaser hereby confirms, that the Shares to be acquired by the Purchaser will be acquired for investment for the Purchaser's own account and has no direct or indirect arrangement or understandings with any other persons to distribute or regarding the distribution of the Shares.

3.3 Disclosure of Information. The Purchaser has had an opportunity to discuss the Company's business, management, financial affairs and the terms and conditions of the offering of the Shares with the Company's management. The foregoing, however, does not limit or modify the representations and warranties of the Company in Section 2 of this Agreement or the right of the Purchaser to rely thereon.

3.4 Restricted Securities. The Purchaser understands that the Shares have not been, and will not be, registered under the Securities Act, by reason of a specific exemption from the registration provisions of the Securities Act which depends upon, among other things, the bona fide nature of the investment intent and the accuracy of the Purchaser's representations as expressed herein. The Purchaser understands that the Shares are "restricted securities" under applicable U.S. federal and state securities laws and that, pursuant to these laws, the Purchaser must hold the Shares indefinitely unless they are registered with the Securities and Exchange Commission and qualified by state authorities, or an exemption from such registration and qualification requirements is available. The Purchaser acknowledges that the Company has no obligation to register or qualify the Shares for resale. The Purchaser further acknowledges that if an exemption from registration or qualification is available, it may be conditioned on various requirements including, but not limited to, the time and manner of sale, the holding period for the Shares, and on requirements relating to the Company which are outside of the Purchaser's control, and which the Company is under no obligation and may not be able to satisfy.

3.5 Purchaser Status. At the time the Purchaser was offered the Shares, it was, and as of the date hereof it is an "accredited investor" as defined in Rule 501(a)(1), (a)(2), (a)(3), (a)(7), (a)(8), (a)(9), (a)(12), or (a)(13) under the Securities Act. The Purchaser, either alone or together with its representatives, has such knowledge, sophistication and experience in business and financial matters so as to be capable of evaluating the merits and risks of the prospective investment in the Shares, and has so evaluated the merits and risks of such investment. The Purchaser is able to bear the economic risk of an investment in the Shares and, at the present time, is able to afford a complete loss of such investment.

3.6 Access to Information. The Purchaser acknowledges that it has had the opportunity to review the Transaction Documents (including all exhibits and schedules thereto) and the SEC Reports and has been afforded, (i) the opportunity to ask such questions as it has deemed necessary of, and to receive answers from, representatives of the Company concerning the terms and conditions of the offering of the Shares and the merits and risks of investing in the Shares; (ii) access to information about the Company and its financial condition, results of operations, business, properties, management and prospects sufficient to enable it to evaluate its investment; and (iii) the opportunity to obtain such additional information that the Company possesses or can acquire without unreasonable effort or expense that is necessary to make an informed investment decision with respect to the investment. No Person other than the Company has made or makes any representation as to the Company or the quality of the Shares.

3.7 Certain Transactions. Other than consummating the transactions contemplated hereunder, the Purchaser has not directly or indirectly, nor has any Person acting on behalf of or pursuant to any understanding with the Purchaser, executed any purchases or sales, including short sales, of the securities of the Company during the period commencing as of the time that the Purchaser first received a term sheet (written or oral) from the Company or any other Person representing the Company setting forth the material terms of the transactions contemplated hereunder and ending immediately prior to the execution hereof. Other than to the Purchaser's representatives, including, without limitation, its officers, directors, partners, legal and other advisors, employees, agents and Affiliates, the Purchaser has maintained the confidentiality of all disclosures made to it in connection with this transaction (including the existence and terms of this transaction).

3.8 General Solicitation. The Purchaser is not purchasing the Shares as a result of any advertisement, article, notice or other communication regarding the Shares published in any newspaper, magazine or similar media or broadcast over television or radio or presented at any seminar or, to the knowledge of such Purchaser, any other general solicitation or general advertisement.

4. Conditions to the Purchaser's Obligations at Closing. The obligations of the Purchaser to purchase Shares at the Closing are subject to the fulfillment, on or before the Closing, of each of the following conditions, unless otherwise waived:

4.1 Representations and Warranties. The representations and warranties of the Company contained in Section 2 shall be true and correct in all material respects as of the Closing, except that any such representations and warranties shall be true and correct in all respects where such representation and warranty is qualified with respect to materiality.

4.2 Performance. The Company shall have performed and complied with all covenants, agreements, obligations and conditions contained in this Agreement that are required to be performed or complied with by the Company on or before the Closing.

4.3 Compliance Certificate. The Company shall deliver to the Purchaser at the Closing a certificate certifying by an the Chief Executive Officer of the Company that the conditions specified in Sections 4.1 and 4.2 have been fulfilled.

4.4 Qualifications. All authorizations, approvals or permits, if any, of any governmental authority or regulatory body of the United States or of any state that are required in connection with the lawful issuance and sale of the Shares pursuant to this Agreement shall be obtained and effective as of the Closing.

4.5 Opinion of Company Counsel. The Purchaser shall have received from Ballard Spahr LLP, counsel for the Company, an opinion, dated as of the Closing.

4.6 Intentionally Omitted.

4.7 Certificate of Designation. The Company shall have filed the Certificate of Designation with the Secretary of State of Delaware on or prior to the Closing, which shall continue to be in full force and effect as of the Closing.

4.8 Secretary's Certificate. The Secretary of the Company shall have delivered to the Purchaser at the Closing a certificate certifying (i) the bylaws, as amended, of the Company, and (ii) resolutions of the Board of Directors approving the Transaction Agreements and the transactions contemplated under the Transaction Agreements.

5. Conditions of the Company's Obligations at Closing. The obligations of the Company to sell the Shares to the Purchaser at the Closing are subject to the fulfillment, on or before the Closing, of each of the following conditions, unless otherwise waived:

5.1 Representations and Warranties. The representations and warranties of the Purchaser contained in Section 3 shall be true and correct in all material respects as of the Closing.

5.2 Performance. The Purchaser shall have performed and complied with all covenants, agreements, obligations and conditions contained in this Agreement that are required to be performed or complied with by it on or before the Closing.

5.3 Qualifications. All authorizations, approvals or permits, if any, of any governmental authority or regulatory body of the United States or of any state that are required in connection with the lawful issuance and sale of the Shares pursuant to this Agreement shall be obtained and effective as of the Closing.

5.4 Purchase Price. The Purchaser shall have paid the aggregate Purchase Price for the Shares in accordance with Section 1.2.

6. Miscellaneous.

6.1 Survival of Warranties. Unless otherwise set forth in this Agreement, the representations and warranties of the Company and the Purchaser contained in or made pursuant to this Agreement, as qualified by the applicable Disclosure Schedules, shall survive the execution and delivery of this Agreement and the Closing.

6.2 Successors and Assigns. The provisions of this Agreement shall inure to the benefit of, and be binding upon the parties hereto and their respective successors, assigns, heirs, executors and administrators and shall inure to the benefit of and be enforceable by each Person who shall be a holder of the Shares from time to time; provided, however, that prior to the receipt by the Company of adequate written notice of the transfer of the Shares specifying the full name and address of the transferee, the Company may deem and treat the Person listed as the holder of such Shares in its records as the absolute owner and holder of such Shares for all purposes.

6.3 Governing Law. This Agreement shall be governed by and construed in accordance with the General Corporation Law of the State of Delaware as to matters within the scope thereof, and as to all other matters shall be governed by and construed in accordance with the internal laws of the State of Delaware, without regard to conflict of law principles that would result in the application of any law other than the law of the State of Delaware.

6.4 Counterparts. This Agreement may be executed in two or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. Counterparts may be delivered via facsimile, electronic mail (including pdf) or other transmission method and any counterpart so delivered shall be deemed to have been duly and validly delivered and be valid and effective for all purposes.

6.5 Titles and Subtitles. The titles and subtitles used in this Agreement are used for convenience only and are not to be considered in construing or interpreting this Agreement.

6.6 Notices. All notices and other communications given or made pursuant to this Agreement shall be in writing and shall be deemed effectively given: (a) upon personal delivery to the party to be notified, (b) when sent by confirmed electronic mail or facsimile if sent during normal business hours of the recipient, and if not so confirmed, then on the next business day, (c) five (5) days after having been sent by registered or certified mail, return receipt requested, postage prepaid, or (d) one (1) day after deposit with a nationally recognized overnight courier, specifying next day delivery, with written verification of receipt. All communications shall be sent to the respective parties at their address as set forth on the signature page, or to such e-mail address, facsimile number or address as subsequently modified by written notice given in accordance with this Section 6.6. If notice is given to the Company, a copy, which shall not constitute notice, shall also be sent to Ballard Spahr LLP, 1735 Market Street, Philadelphia, PA 19103, Attention: Peter Jaslow, Esq.

6.7 Amendments and Waivers. Any term of this Agreement may be amended, terminated or waived only with the written consent of the Company and the Purchaser. Any amendment or waiver effected in accordance with this Section 6.7 shall be binding upon the Purchaser and each transferee of the Shares (or the Conversion Shares), each future holder of all such securities, and the Company.

6.8 Severability. The invalidity or unenforceability of any provision hereof shall in no way affect the validity or enforceability of any other provision.

6.9 Delays or Omissions. No delay or omission to exercise any right, power or remedy accruing to any party under this Agreement, upon any breach or default of any other party under this Agreement, shall impair any such right, power or remedy of such non-breaching or non-defaulting party nor shall it be construed to be a waiver of any such breach or default, or an acquiescence therein, or of or in any similar breach or default thereafter occurring; nor shall any waiver of any single breach or default be deemed a waiver of any other breach or default theretofore or thereafter occurring. Any waiver, permit, consent or approval of any kind or character on the part of any party of any breach or default under this Agreement, or any waiver on the part of any party of any provisions or conditions of this Agreement, must be in writing and shall be effective only to the extent specifically set forth in such writing. All remedies, either under this Agreement or by law or otherwise afforded to any party, shall be cumulative and not alternative.

6.10 Entire Agreement. This Agreement (including the Exhibits hereto), the Certificate of Designation and the other Transaction Agreements constitute the full and entire understanding and agreement between the parties with respect to the subject matter hereof, and any other written or oral agreement relating to the subject matter hereof existing between the parties are expressly canceled.

6.11 Submission to Jurisdiction. The parties hereto submit to the exclusive jurisdiction of any federal or state court located within the State of Delaware over any dispute arising out of or relating to the Agreement or any of the transactions contemplated hereby and each party hereby agree that all claims in respect of such dispute or any suit, action or proceeding related thereto may be heard and determined in such courts. The parties waive, to the fullest extent permitted by applicable law, any objection which they may not or hereafter have to the laying of venue of any such dispute brought in such court or any defense of inconvenient forum for the maintenance of such dispute. Each of the parties hereto agrees that a judgment in any such dispute may be enforced in other jurisdictions by suit on the judgment or in any other manner provided by law.

6.12 WAIVER OF JURY TRIAL. IN ANY ACTION, SUIT, OR PROCEEDING IN ANY JURISDICTION BROUGHT BY ANY PARTY AGAINST ANY OTHER PARTY, THE PARTIES EACH KNOWINGLY AND INTENTIONALLY, TO THE GREATEST EXTENT PERMITTED BY APPLICABLE LAW, HEREBY ABSOLUTELY, UNCONDITIONALLY, IRREVOCABLY AND EXPRESSLY WAIVES FOREVER TRIAL BY JURY.

[Remainder of This Page Intentionally Left Blank]

IN WITNESS WHEREOF, the parties have executed this Series B Preferred Stock Purchase Agreement as of the date first written above.

**COMPANY:**

OPGEN, INC.

By: \_\_\_\_\_

Name: Oliver Schacht

Title: Chief Executive Officer

By: \_\_\_\_\_

Name: Albert Weber

Title: Chief Financial Officer

**Address:**

OpGen, Inc.

9717 Key West Ave, Suite 100

Rockville, MD 20850

**PURCHASER:**

[PURCHASER]

By: \_\_\_\_\_

Name:

Title:

**Address:**

[\_\_\_\_\_].

[\_\_\_\_\_]

[\_\_\_\_\_]

[Signature Page to Series Stock Purchase Agreement]