

Prospectus Supplement No. 11
(To Prospectus dated March 30, 2023)

Comera Life Sciences Holdings, Inc. 5,000,000 Shares of Common Stock

This prospectus supplement no.11 (this “Prospectus Supplement”) updates, amends and supplements the prospectus dated March 30, 2023 (as amended or supplemented from time to time, the “Prospectus”) which forms a part of the Registration Statement on Form S-1 (Registration Statement No. 333-267283) filed by Comera Life Sciences Holdings, Inc. (“Holdco”). Capitalized terms used in this Prospectus Supplement and not otherwise defined herein have the meanings specified in the Prospectus.

This Prospectus Supplement is being filed to update, amend and supplement the information included or incorporated by reference in the Prospectus with the information contained in our Current Report on Form 8-K, filed with the Securities and Exchange Commission (the “SEC”) on December 29, 2023 (the “Current Report”). Accordingly, we have attached the Current Report to this Prospectus Supplement.

This Prospectus Supplement is not complete without, and may not be delivered or utilized except in combination with, the Prospectus, including any amendments or supplements thereto. This Prospectus Supplement should be read in conjunction with the Prospectus and any amendments or supplements thereto. If there is any inconsistency between the information in the Prospectus and this Prospectus Supplement, you should rely on the information in this Prospectus Supplement.

The Holdco Common Stock is listed on the OTCQB of OTC Markets Group Inc. (the “OTCQB”) under the symbol “CMRA”, and the Holdco Warrants are listed on the OTC Pink Marketplace under the symbol “CMRAW”. On December 28, 2023, the closing price of the Holdco Common Stock as reported on the OTCQB was \$0.055 per share, and the last sale price of the Holdco Warrants as reported on the OTC Pink Marketplace was \$0.0069 per warrant.

Investing in our securities is highly speculative and involves a high degree of risk. Before buying any securities, you should review carefully the risks and uncertainties of investing in our securities described in the section titled “Risk Factors” beginning on page 17 of the Prospectus, and under similar headings in any amendments or supplements thereto.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of the securities to be issued under the Prospectus or passed upon the accuracy or adequacy of the Prospectus. Any representation to the contrary is a criminal offense.

The date of this Prospectus Supplement is December 29, 2023

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

FORM 8-K

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

Date of Report (Date of earliest event reported): December 29, 2023

Comera Life Sciences Holdings, Inc.
(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction
of incorporation)

1-41403
(Commission
File Number)

87-4706968
(IRS Employer
Identification No.)

12 Gill Street
Suite 4650
Woburn, Massachusetts
(Address of principal executive offices)

01801
(Zip Code)

Registrant's telephone number, including area code: (617) 871-2101

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:

- 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))
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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	CMRA	The Nasdaq Stock Market LLC
Warrants	CMRAW	The Nasdaq Stock Market LLC

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 Entry into a Material Definitive Agreement**1.01**

On December 29, 2023, Comera Life Sciences Holdings, Inc. (the “Company”) entered into a Securities Purchase Agreement (the “Purchase Agreement”) with certain purchasers described below (collectively, the “Purchasers” and each, a “Purchaser”), pursuant to which the Company agreed to issue and sell to the Purchasers in a private placement (the “Private Placement”) \$1,500,000 in aggregate principal amount of 12.0% Senior Secured Convertible Notes due 2024 (collectively, the “Notes”) and accompanying warrants (the “Warrants”) to purchase up to an aggregate number of shares (the “Warrant Shares”) of the Company’s common stock, par value \$0.0001 per share (the “Common Stock”) equal to 200% of the number of Note Shares (as defined below) issuable upon conversion of the Notes immediately following the closing of the Private Placement. The closing of the Private Placement was subject to customary representations and warranties and closing conditions, and took place on December 29, 2023 (the “Issuance Date”). No placement agent was retained, and no placement agent fees are payable in connection with the Private Placement. The Company intends to use the net proceeds from the Private Placement for working capital and general corporate purposes in accordance with the Purchase Agreement.

The Notes are senior secured obligations of the Company. The Notes bear interest at a rate of 12.0% per year, payable monthly in arrears on the last day of each month, commencing on January 31, 2024, and will mature on December 29, 2024, unless earlier redeemed, repurchased or converted in accordance with their terms. For any interest period for the Notes, the Company can elect to pay interest in cash or in PIK interest by increasing the outstanding principal amount of the Notes in the aggregate principal amount of the interest accrued for the applicable interest period. The Notes, including the principal and all accrued and unpaid interest thereon, are convertible at the option of any Purchaser at any time or times on or after the Issuance Date into shares of the Company’s Common Stock (the “Note Shares” and, collectively with the Notes, the Warrants and the Warrant Shares, the “Securities”), at a conversion price of \$0.055 per share (subject to adjustment in accordance with the terms of the Notes), which was the closing sale price of the Company’s Common Stock on the OTCQB market on the trading day immediately preceding the Issuance Date (the “Closing Price”). Subject to the terms of the Notes, upon specified Events of Default (as defined in the Notes), the Purchasers can require the Company to redeem all or any portion of the Notes in cash at a price equal to 100% of the principal amount of the Notes to be redeemed, plus accrued and unpaid interest, if any, to, but excluding, the redemption date. The Notes are secured by a first priority lien on substantially all of the properties, assets, and rights of the Company. The Notes are not guaranteed.

While any of the Notes are outstanding, the Company is subject to certain affirmative and negative covenants as set forth in the Notes. The terms of the Notes may be amended or waived with the consent of Purchasers representing at least two-thirds of the aggregate principal amount of the Notes then outstanding, subject to the terms thereof.

The Warrants will expire five (5) years from the Issuance Date and are immediately exercisable at an exercise price equal to the Closing Price (subject to adjustment in accordance with the terms of the Warrants).

Pursuant to the Purchase Agreement, the Purchasers have a right, for one year from the date of execution of the Purchase Agreement, to participate in up to 50% in the aggregate offering amount of any equity securities that the Company may issue or sell, subject to certain limited exceptions. The Company is also restricted, for a period of 60 days after the Issuance Date, from raising any equity or debt capital, subject to certain limited exceptions, or from filing any registration statement or amendment or supplement thereto, except for a Registration Statement on Form S-8 in connection with any employee benefit plan, unless such restriction is waived by Purchasers representing a majority of the aggregate principal amount of the Notes then outstanding.

Pursuant to and in accordance with the terms and conditions of the Purchase Agreement, the Purchasers have a right, until the later of December 29, 2024 and the payment in full in cash of all obligations in respect of the Purchase Agreement and the Securities, to purchase all outstanding shares of the Company’s Common Stock not then held by the Purchasers, upon the written notice of Purchasers representing at least two-thirds of the aggregate principal amount of the Notes then outstanding (the “Share Purchase”). Subject to the terms and conditions of a definitive agreement relating thereto, the purchase price will be cash consideration per share of Common Stock

equal to the greater of: (i) \$0.0825 per share of Common Stock and (ii) an amount per share of Common Stock equal to 1.5 times the closing price of the Company's common stock on the date immediately preceding the execution of a definitive agreement to effect the Share Purchase. In connection with the Share Purchase right, until the later of December 29, 2024 and the payment in full in cash of all obligations in respect of the Purchase Agreement and the Securities, the Company has agreed to deal exclusively with the Purchasers, such that neither the Company nor any of its representatives will, directly or indirectly, solicit, encourage or initiate any offer or proposal from, or engage in any discussions with, or provide any information to, any corporation, partnership, person or other entity or group concerning the sale of the Company or any of its securities or assets or any merger, consolidation, liquidation, restructuring, recapitalization or similar transaction involving the Company, except with respect to the sale of assets in the ordinary course of business consistent with past practice.

Pursuant to the Purchase Agreement, as long as any Purchaser owns any Securities, and upon written request by Purchasers representing at least a majority of the aggregate principal amount of the Notes then outstanding, the Company has agreed to register the resale of all of the Note Shares and Warrant Shares with the Securities and Exchange Commission as soon as reasonably practicable.

Pursuant to the Purchase Agreement, the Purchasers have agreed to, or have agreed to cause relevant other parties to, consent to the Private Placement, waive certain outstanding redemption rights which such party may have in connection with the Company's receipt of proceeds under the Private Placement, waive certain outstanding rights to participate in any offering of securities or in any financing by the Company, and consent to a reduction in the share reservation by the Company in connection with certain outstanding Common Stock purchase warrants, in each case, as of the Issuance Date.

The Purchasers consist of a select group of existing stockholders who are qualified institutional buyers, institutional accredited investors or accredited investors and include Charles Cherington, the beneficial owner of more than 20% of Common Stock prior to the Issuance Date; The Alexander V. Soane 2019 Irrevocable Trust dated June 7, 2019 and The Nicholas V. Soane 2019 Irrevocable Trust dated June 7, 2019, for each of which David Soane, the beneficial owner of more than 20% of Common Stock prior to the Issuance Date, serves as trustee; Freebird Partners LP, and IAF, LLC, each a beneficial owner of 10% or more of Common Stock prior to the Issuance Date; and the John D. Halpern Revocable Trust, Denny Family Partners II, LLC and Regolith Capital Investments L.P., each a beneficial owner of 5% or more of Common Stock prior to the Issuance Date. The Warrants and the Notes contain beneficial ownership limitations that may be waived at the option of each holder upon 61 days' notice to the Company, but no such beneficial ownership limitations apply to Charles Cherington, The Alexander V. Soane 2019 Irrevocable Trust dated June 7, 2019 and The Nicholas V. Soane 2019 Irrevocable Trust dated June 7, 2019. Other than with respect to the foregoing, each of the Purchasers participated on the same terms and subject to the same conditions as all other Purchasers.

The Securities have not been registered under the Securities Act of 1933, as amended (the "Securities Act"), and may not be offered or sold in the United States absent registration or an applicable exemption from registration requirements. The Company is relying on the private placement exemption from registration provided by Section 4(a)(2) of the Securities Act and by Rule 506 of Regulation D promulgated thereunder, and in reliance on similar exemptions under applicable state laws. The Company relied on this exemption from registration based in part on representations made by the Purchasers, including that each Purchaser is an "accredited investor," as defined in Rule 501(a) promulgated under the Securities Act.

The foregoing descriptions of the Purchase Agreement, the Notes and the Warrants are summaries of the material terms of such agreements and documents, do not purport to be complete and are qualified in their entirety by reference to the Form of Senior Secured Convertible Note filed as Exhibit 4.1, the Form of Common Stock Purchase Warrant filed as Exhibit 4.2 and the Purchase Agreement filed as Exhibit 10.1.

Neither this Current Report on Form 8-K nor any exhibit attached hereto is an offer to sell or the solicitation of an offer to buy any securities of the Company.

Item 2.03. Creation of a Direct Financial Obligation or an Obligation under an Off-Balance Sheet Arrangement of a Registrant.

The disclosures set forth in Item 1.01 above are incorporated herein into this Item 2.03.

Item 3.02. Unregistered Sales of Equity Securities.

The disclosures set forth in Item 1.01 above are incorporated herein into this Item 3.02.

Forward-Looking Statements

This Current Report on Form 8-K contains forward-looking statements that are based on the beliefs and assumptions of the Company's management and on information currently available to the Company's management. Forward-looking statements include statements related to the expected use of proceeds from the Private Placement. Forward-looking statements include statements that are not historical facts and can be identified by terms such as "anticipate," "could," "expect," "may," "intend," "should," "plan," "will," "will be," "would" or similar expressions and the negatives of those terms. Actual results and the timing of events could materially differ from those anticipated in such forward-looking statements as a result of certain risks and uncertainties including those described in more detail in the Company's most recent Annual Report on Form 10-K, Quarterly Reports on Form 10-Q and other documents on file with the SEC, each of which can be found on the SEC's website, www.sec.gov, or the investor relations portion of the Company's website, <https://ir.comeralifesciences.com/financial-information/sec-filings>. Except as required by law, the Company assumes no obligation to update these forward-looking statements, or to update the reasons actual results could differ materially from those anticipated in these forward-looking statements, even if new information becomes available in the future.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

Exhibit No.	Description
4.1	Form of Senior Secured Convertible Note
4.2	Form of Common Stock Warrant
10.1	Securities Purchase Agreement, dated December 29, 2023, by and among Comera Life Sciences Holdings, Inc. and the Purchasers defined therein
104	Inline XBRL for the cover page of this Current Report on Form 8-K

SIGNATURE

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

Dated: December 29, 2023

COMERA LIFE SCIENCES HOLDINGS, INC.

By: /s/ Michael Campbell

Name: Michael Campbell

Title: Executive Vice President and Chief Financial Officer

FORM OF SENIOR SECURED CONVERTIBLE NOTE

NEITHER THIS SECURITY NOR THE SECURITIES INTO WHICH THIS SECURITY IS CONVERTIBLE HAVE BEEN REGISTERED WITH THE SECURITIES AND EXCHANGE COMMISSION OR THE SECURITIES COMMISSION OF ANY STATE IN RELIANCE UPON AN EXEMPTION FROM REGISTRATION UNDER THE SECURITIES ACT OF 1933, AS AMENDED (THE "SECURITIES ACT"), AND, ACCORDINGLY, MAY NOT BE OFFERED OR SOLD EXCEPT PURSUANT TO AN EFFECTIVE REGISTRATION STATEMENT UNDER THE SECURITIES ACT OR PURSUANT TO AN AVAILABLE EXEMPTION FROM, OR IN A TRANSACTION NOT SUBJECT TO, THE REGISTRATION REQUIREMENTS OF THE SECURITIES ACT AND IN ACCORDANCE WITH APPLICABLE STATE SECURITIES LAWS. THIS SECURITY AND THE SECURITIES ISSUABLE UPON CONVERSION OF THIS SECURITY MAY BE PLEDGED IN CONNECTION WITH A BONA FIDE MARGIN ACCOUNT WITH A REGISTERED BROKER-DEALER OR OTHER LOAN WITH A FINANCIAL INSTITUTION THAT IS AN "ACCREDITED INVESTOR" AS DEFINED IN RULE 501(a) UNDER THE SECURITIES ACT OR OTHER LOAN SECURED BY SUCH SECURITIES. ANY TRANSFEREE OF THIS NOTE SHOULD CAREFULLY REVIEW THE TERMS OF THIS NOTE, INCLUDING SECTIONS 3(c)(iii) AND 18(a) HEREOF. THE PRINCIPAL AMOUNT REPRESENTED BY THIS NOTE AND, ACCORDINGLY, THE SECURITIES ISSUABLE UPON CONVERSION HEREOF, MAY BE LESS THAN THE AMOUNT SET FORTH ON THE FACE HEREOF PURSUANT TO SECTION 3(c)(iii) OF THIS NOTE.

COMERA LIFE SCIENCES HOLDINGS, INC.
12.0% SENIOR SECURED CONVERTIBLE NOTE
DUE DECEMBER 29, 2024

Issuance Date: December 29, 2023

Original Principal Amount: U.S. \$[_____]

FOR VALUE RECEIVED, Comera Life Sciences Holdings, Inc., a Delaware corporation (the "**Company**"), hereby promises to pay to [_____] or its registered assigns (the "**Holder**") the amount set forth above as the Original Principal Amount (as reduced pursuant to the terms hereof pursuant to redemption, conversion or otherwise or increased by the payment of interest pursuant to Section 2, the "**Principal**") when due, whether upon the Maturity Date (as defined below), or upon acceleration, redemption or otherwise (in each case in accordance with the terms hereof) and to pay interest ("**Interest**"), if applicable, on any outstanding Principal, in accordance with the terms hereof, from the date set out above as the Issuance Date (the "**Issuance Date**"), to, but not including, the date on which the same becomes due and payable, whether upon the Maturity Date, acceleration, conversion, redemption or otherwise (in each case in accordance with the terms hereof). This Senior Secured Convertible Note (including all Senior Secured Convertible Notes offered in exchange, transfer or replacement hereof, this "**Note**") is one of an issue of Notes issued pursuant to the Securities Purchase Agreement on the Closing Date (collectively, the "**Notes**" and, such other Senior Secured Convertible Notes, the "**Other Notes**"). Certain capitalized terms used herein are defined in Section 31.

(1) **PAYMENTS OF PRINCIPAL; NO PREPAYMENT.** On the Maturity Date, if any portion of this Note remains outstanding, the Company shall pay to the Holder an amount in cash representing all the outstanding Principal, together with any accrued and unpaid Interest thereon. The "**Maturity Date**" shall be December 29, 2024. Other than as specifically permitted by this Note, the Company may not prepay any portion of the outstanding Principal or accrued and unpaid Interest thereon, if any.

(2) **INTEREST.** From the Issuance Date or from the most recent date to which interest had been paid or provided for to, but not including, the next scheduled interest payment date until the Maturity Date, the Company shall pay Interest on the Principal in cash or, at the Company's election for any interest period, by increasing the outstanding Principal in the aggregate principal amount of the Interest accrued for the applicable interest period (such Interest paid pursuant to an increase in outstanding Principal, "**PIK Interest**"). Interest shall accrue hereunder at twelve percent (12.0%) per annum and shall be computed on the basis of a 360-day year and twelve 30-day months. Interest shall be payable monthly in arrears on the last day of each month, commencing on January 31, 2024, to the

Holder, and, (i) if the Company has elected to effect a given payment of Interest in cash, then such payment in Interest shall be made by the Company in cash by wire transfer of immediately available funds pursuant to wire instructions provided by the Holder in writing to the Company at least three Business Days prior to the relevant interest payment date or (ii) otherwise, such payment shall be added to the outstanding Principal on such interest payment date as PIK Interest. Accrued and unpaid Interest, if any, may also be paid, at the election of the Company for any interest period, by way of inclusion of the Interest in the Conversion Amount (as defined in Section 3(b)(i)) on each (i) Conversion Date (as defined in Section 3(c)(i)) in accordance with Section 3(c)(i) or (ii) upon any Bankruptcy Event of Default redemption hereunder occurring prior to the Maturity Date.

(3) **CONVERSION OF NOTES.** At any time or times on or after the Issuance Date, this Note shall be convertible into shares of Common Stock, on the terms and conditions set forth in this Section 3.

(a) **Conversion Right.** Subject to the provisions of Section 3(d), at any time or times on or after the Issuance Date, the Holder shall be entitled to convert all or any portion of the outstanding and unpaid Conversion Amount into validly issued, fully paid and nonassessable shares of Common Stock in accordance with Section 3(c), at the Conversion Rate (as defined below). The Company shall not issue any fraction of a share of Common Stock upon any conversion. If the issuance would result in the issuance of a fraction of a share of Common Stock, the Company shall round such fraction of a share of Common Stock down to the nearest whole share. The Company shall pay any and all transfer, stamp and similar taxes that may be payable with respect to the issuance and delivery of Common Stock upon conversion of any Conversion Amount; provided, that the Holder shall be responsible for any such tax to the extent that such tax is in respect of the Holder's instructions to issue shares of Common Stock to a Person other than the Holder.

(b) **Conversion Rate.** The number of shares of Common Stock issuable upon conversion of any Conversion Amount pursuant to Section 3(a) shall be determined by dividing (x) such Conversion Amount by (y) the Conversion Price (the "**Conversion Rate**").

(i) "**Conversion Amount**" means the sum of (x) the portion of the Principal to be converted, redeemed or otherwise with respect to which this determination is being made, and (y) accrued and unpaid Interest, if any, with respect to such portion of the Principal.

(ii) "**Conversion Price**" means, as of any Conversion Date or other applicable date of determination, \$0.055, subject to adjustment as provided herein.

(c) **Mechanics of Conversion.**

(i) **Optional Conversion.** To convert any Conversion Amount into shares of Common Stock on any date (a "**Conversion Date**"), the Holder shall (A) transmit by electronic mail (or otherwise deliver), for delivery on or prior to 11:59 p.m., New York time, on such date, a copy of an executed notice of conversion in the form attached hereto as Exhibit I (a "**Conversion Notice**") to the Company and (B) if required by Section 3(c)(iii), but without delaying the Company's requirement to deliver shares of Common Stock on the applicable Share Delivery Date (as defined below), surrender this Note to a common carrier for delivery to the Company as soon as practicable on or following such date (or an indemnification undertaking with respect to this Note in the case of its loss, theft, destruction or mutilation in compliance with the procedures set forth in Section 18(b)). No ink-original Conversion Notice shall be required, nor shall any medallion guarantee (or other type of guarantee or notarization) of any Conversion Notice be required. On or before the first (1st) Trading Day following the date of delivery of a Conversion Notice, the Company shall transmit by electronic mail a confirmation of receipt of such Conversion Notice to the Holder and the Company's transfer agent (the "**Transfer Agent**"). On or before the earlier of (i) the second (2nd) Trading Day and (ii) the number of Trading Days comprising the Standard Settlement Period, in each case, following the date on which the Holder has delivered the applicable Conversion Notice to the Company (a "**Share Delivery Date**"), the Company shall (x) provided that the Transfer Agent is participating in the Depository Trust Company ("**DTC**") Fast Automated Securities Transfer Program and (A) the applicable Conversion Shares are subject to an effective resale registration statement in favor of the Holder or (B) if converted at a time when Rule 144 shall then be available for resale of the applicable Conversion Shares by the Holder

(without the need for current public information under Rule 144(c)), credit such aggregate number of Conversion Shares to which the Holder is entitled pursuant to such conversion to the Holder's or its designee's balance account with DTC through its Deposit / Withdrawal At Custodian system, or (y) if (A) the Transfer Agent is not participating in the DTC Fast Automated Securities Transfer Program or (B) the applicable Conversion Shares are not subject to an effective resale registration statement in favor of the Holder and, if converted at a time when Rule 144 would not be available for resale of the applicable Conversion Shares by the Holder without compliance with Rule 144(c), either (i) issue and postmark or deliver to the address as specified in the Conversion Notice, a certificate, registered in the name of the Holder or its designee, for the number of shares of Common Stock to which the Holder shall be entitled pursuant to such conversion or (ii) direct the Transfer Agent to issue such number of shares of Common Stock to which the Holder shall be entitled pursuant to such conversion in uncertificated form in the Transfer Agent's direct registration system. If this Note is physically surrendered for conversion as required by Section 3(c)(iii) and the outstanding Principal of this Note is greater than the Principal portion of the Conversion Amount being converted, then the Company shall as soon as practicable and in no event later than two (2) Business Days after receipt of this Note and at its own expense, issue and deliver to the Holder a new Note (in accordance with Section 18(d)) representing the outstanding Principal not converted. The Person or Persons entitled to receive the shares of Common Stock issuable upon a conversion of this Note shall be treated for all purposes as the record holder or holders of such shares of Common Stock on the applicable Conversion Date, irrespective of the date such Conversion Shares are credited to the Holder's account with DTC or the date of delivery of the certificates (or issuance of shares in the Transfer Agent's direct registration system) evidencing such Conversion Shares, as the case may be. The Company's obligations to issue and deliver shares of Common Stock in accordance with the terms and subject to the conditions 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. While any Notes are outstanding, the Company shall use its reasonable best efforts to use a Transfer Agent that participates in the DTC Fast Automated Securities Transfer Program.

(ii) Company's Failure to Timely Convert. If the Company shall fail (i) on or prior to the applicable Share Delivery Date to (1) issue and postmark or deliver a certificate evidencing the applicable Conversion Shares (or direct the Transfer Agent to issue via direct registration) to the Holder if (A) the Transfer Agent is not participating in the DTC Fast Automated Securities Transfer Program or (B) the applicable Conversion Shares are not subject to an effective resale registration statement in favor of the Holder and, if converted at a time when Rule 144 would not be available for resale of the applicable Conversion Shares by the Holder without compliance with Rule 144(c), or (2) credit the Holder's or its designee's balance account with DTC if the Transfer Agent is participating in the DTC Fast Automated Securities Transfer Program and (A) the applicable Conversion Shares are subject to an effective resale registration statement in favor of the Holder or (B) if converted at a time when Rule 144 would be available for resale of the applicable Conversion Shares by the Holder without compliance with Rule 144(c), for the number of shares of Common Stock to which the Holder is entitled upon the Holder's conversion of any Conversion Amount or (ii) on any date of the Company's obligation to deliver shares of Common Stock as contemplated pursuant to clause (y) below, and if on or after such Trading Day the Holder purchases (in an open market transaction or otherwise) Common Stock to deliver in satisfaction of a sale by the Holder of Conversion Shares issuable upon such conversion that the Holder anticipated receiving from the Company (a "**Buy-In**"), then the Company shall, within two (2) Trading Days after the Holder's request and in the Holder's discretion, either (x) pay cash to the Holder in an amount equal to the Holder's total purchase price (including brokerage commissions and other out-of-pocket expenses, if any) for the shares of Common Stock so purchased (the "**Buy-In Price**"), at which point the Company's obligation to issue and deliver such certificate or credit the Holder's or its designee's balance account with DTC for the Conversion Shares to which the Holder is entitled upon the Holder's conversion of the applicable Conversion Amount shall terminate, or (y) promptly honor its obligation to deliver to the Holder a certificate or certificates representing such Conversion Shares (or direct the Transfer Agent to issue such shares via its direct registration system) or credit the Holder's or its designee's balance account with DTC for such Conversion Shares and pay cash to the Holder in an amount equal to the excess (if any) of the Buy-In Price over the product of (A) such number of shares of Common Stock, times (B) the price per share of Common Stock at which the Holder sold such shares of Common Stock in anticipation of the delivery thereof upon the applicable Share Delivery

Date; provided, that in the case of the Company's performance under either clause (x) or clause (y), the Company's obligation in respect of the applicable Conversion Amount shall be deemed satisfied in full. Nothing herein shall limit the Holder's right to pursue any other remedies available to it hereunder, at law or in equity including, without limitation, a decree of specific performance or injunctive relief with respect to the Company's failure to timely deliver certificates representing shares of Common Stock (or to electronically deliver such shares of Common Stock) upon conversion of this Note as required pursuant to the terms hereof.

(iii) Registration; Book-Entry. The Company shall maintain a register (the "**Register**") for the recordation of the name and address of the holder of the Note and the Other Notes and the Principal amount of the Note and the principal amounts of the Other Notes (and stated interest thereon) held by such holders (the "**Registered Notes**"). The entries in the Register shall be conclusive and binding for all purposes absent manifest error. The Company and the holders of a Registered Note shall treat each Person whose name is recorded in the Register as the owner of such Registered Note for all purposes, including, without limitation, the right to receive payments of Principal and Interest, if any, under such Registered Note, notwithstanding notice to the contrary. A Registered Note may be assigned or sold in whole or in part only by registration of such assignment or sale on the Register. Subject to Section 4.1 of the Securities Purchase Agreement, upon its receipt of a written request to assign or sell all or part of any Registered Note by the holder thereof, the Company shall record the information contained therein in the Register and issue one or more new Registered Notes in the same aggregate Principal amount as the Principal amount of the surrendered Registered Note to the designated assignee or transferee pursuant and subject to Section 18. Notwithstanding anything to the contrary set forth herein, upon conversion of any portion of this Note in accordance with the terms hereof, the Holder shall not be required to physically surrender this Note to the Company unless (A) the full Conversion Amount represented by this Note is being converted or (B) the Holder has provided the Company with prior written notice (which notice may be included in a Conversion Notice) requesting reissuance of this Note upon physical surrender of this Note. The Holder and the Company shall maintain records showing the Principal and Interest, if any, converted or paid (as the case may be) and the dates of such conversions and payments (as the case may be) or shall use such other method, reasonably satisfactory to the Holder and the Company, so as not to require physical surrender of this Note upon conversion. If the Company does not update the Register to record such Principal and Interest, if any, converted and/or paid (as the case may be) and the dates of such conversions and/or payments (as the case may be) within two (2) Business Days of such occurrence, then the Register shall be automatically deemed updated to reflect such occurrence.

(iv) Pro Rata Conversion; Disputes. In the event that the Company receives a Conversion Notice from the Holder and one or more holders of Other Notes for the same Conversion Date and the Company can convert some, but not all, of such portions of this Note and/or the Other Notes submitted for conversion, the Company, subject to Section 3(d), shall convert from the Holder and each holder of Other Notes electing to have Notes converted on such date, a pro rata amount of such holder's portion of the Note and its Other Notes submitted for conversion based on the Principal amount of this Note and principal amounts of the Other Notes submitted for conversion on such date by such holder relative to the aggregate Principal amount of this Note and all Other Notes submitted for conversion on such date. In the event of a dispute as to the number of shares of Common Stock issuable to the Holder in connection with a conversion of this Note, the Company shall issue to the Holder the number of shares of Common Stock not in dispute and resolve such dispute in accordance with Section 23.

(d) Beneficial Ownership Conversion Limitations. Notwithstanding anything to the contrary contained herein, the Company shall not effect the conversion of all or any portion of this Note, and the Holder shall not have the right to convert any portion of this Note pursuant to the terms and conditions of this Note, and any such conversion shall be null and void and treated as if never made, to the extent that after giving effect to such conversion, the Holder together with the other Attribution Parties collectively would beneficially own in excess of [4.99%][9.99%][19.99%]¹ (the "**Maximum Percentage**") of the number of shares of Common Stock outstanding immediately after giving effect to such conversion. For purposes of the foregoing sentence, the aggregate number of shares of Common Stock beneficially owned by the Holder and the other Attribution Parties shall include the number of shares of Common Stock held by the Holder and all other Attribution Parties plus the number of shares of Common Stock issuable upon conversion of this Note with respect to which the determination of such sentence is being made,

but shall exclude the number of shares of Common Stock which would be issuable (i) upon conversion of the remaining, nonconverted portion of this Note beneficially owned by the Holder or any of the other Attribution Parties and (ii) upon exercise or conversion of the unexercised or nonconverted portion of any other securities of the Company (including, without limitation, any convertible notes or convertible preferred stock or warrants, including the Other Notes and Warrants) beneficially owned by the Holder or any other Attribution Party subject to a limitation on conversion or exercise analogous to the limitation contained in this Section 3(d). For purposes of this Section 3(d), beneficial ownership shall be calculated in accordance with Section 13(d) of the Exchange Act. For purposes of determining the number of outstanding shares of Common Stock the Holder may acquire pursuant to the conversion of this Note without exceeding the Maximum Percentage, the Holder may rely on the number of outstanding shares of Common Stock as reflected in (i) the Company's most recent Annual Report on Form 10-K, Quarterly Report on Form 10-Q, Current Report on Form 8-K or other public filing made by the Company with the SEC, as the case may be, (ii) a more recent public announcement by the Company or (iii) any other written notice by the Company or the Transfer Agent setting forth the number of shares of Common Stock outstanding (the "**Reported Outstanding Share Number**"). If the Company receives a Conversion Notice from the Holder at a time when the actual number of outstanding shares of Common Stock is less than the Reported Outstanding Share Number, the Company shall notify the Holder in writing of the number of shares of Common Stock then outstanding and, to the extent that such Conversion Notice would otherwise cause the Holder's beneficial ownership, as determined pursuant to this Section 3(d), to exceed the Maximum Percentage, the Holder shall notify the Company of a reduced number of shares of Common Stock to be purchased pursuant to such Conversion Notice (and, for all purposes of this Note, including for purposes of determining the Share Delivery Date, the Conversion Date with respect to such Conversion Notice shall be the date on which the Holder so notifies the Company of such reduced number of shares of Common Stock). For any reason at any time, upon the written or oral request of the Holder, the Company shall within one (1) Trading Day confirm orally and in writing or by electronic mail to the 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 Company, including this Note, by the Holder and any other Attribution Party since the date as of which the Reported Outstanding Share Number was reported. In the event that the issuance of shares of Common Stock to the Holder upon conversion of this Note would result in the Holder and the other Attribution Parties being deemed to beneficially own, in the aggregate, more than the Maximum Percentage of the number of outstanding shares of Common Stock (as determined under Section 13(d) of the Exchange Act), the number of shares so issued by which the Holder's and the other Attribution Parties' aggregate beneficial ownership would exceed the Maximum Percentage (the "**Excess Shares**") shall be deemed null and void and shall be cancelled ab initio and any portion of the Conversion Amount so converted shall be reinstated, and the Holder shall not have the power to vote or to transfer the Excess Shares. Upon delivery of a written notice to the Company, the Holder may from time to time increase or decrease the Maximum Percentage to any other percentage; provided that (i) any such increase in the Maximum Percentage will not be effective until the sixty-first (61st) day after such notice is delivered to the Company and (ii) any such increase or decrease will apply only to the Holder and the other Attribution Parties and not to any other holder of Notes that is not an Attribution Party of the Holder. For purposes of clarity, the shares of Common Stock issuable pursuant to the terms of this Note in excess of the Maximum Percentage shall not be deemed to be beneficially owned by the Holder for any purpose including for purposes of Section 13(d) or Rule 16a-1(a)(1) of the Exchange Act. The provisions of this paragraph shall be construed and implemented in a manner otherwise than in strict conformity with the terms of this Section 3(d) to the extent necessary to correct this paragraph (or any portion of this paragraph) which may be defective or inconsistent with the intended beneficial ownership limitation contained in this Section 3(d) or to make changes or supplements necessary or desirable to properly give effect to such limitation. The limitation contained in this paragraph may not be waived and shall apply to a successor holder of this Note.]²

(4) RIGHTS UPON EVENT OF DEFAULT.

(a) Event of Default. Each of the following events or failure to comply therewith shall constitute an "**Event of Default**" and each of the events described in clauses (vii) and (viii) shall also constitute a "**Bankruptcy Event of Default**":

(i) [reserved];

(ii) the suspension of the Common Stock from trading on an Eligible Market for a period of three (3) consecutive Trading Days or for more than an aggregate of fifteen (15) Trading Days in any 365-day period or the failure of the Common Stock to be listed on an Eligible Market;

(iii) the Company's notice, written or oral, to the Holder or any holder of the Other Notes, including by way of public announcement or through any of its duly authorized agents, at any time, of its intention not to comply as required by the terms hereof with a request for conversion of this Note or any Other Notes into shares of Common Stock that is tendered in accordance with the provisions of this Note or the Other Notes, other than pursuant to Section 3(d) (and analogous provisions under the Other Notes);

(iv) at any time following the fifth (5th) consecutive Business Day that the Holder's Authorized Share Allocation (as defined in Section 10(a)) is less than the Holder's Pro Rata Amount of the Required Reserve Amount (as defined in Section 10(a));

(v) the Company's failure to pay to the Holder any amount of Principal, Interest, Redemption Price or other amounts when and as due under this Note, except in the case of a failure to pay Interest when and as due, in which case only if such failure continues for a period of at least an aggregate of three (3) Business Days;

(vi) any default under or redemption or acceleration prior to maturity of any Indebtedness of the Company or any of its Subsidiaries other than with respect to this Note or any Other Notes;

(vii) the Company or any of its Subsidiaries, pursuant to or within the meaning of Title 11, U.S. Code, or any similar federal, foreign or state law for the relief of debtors (collectively, "**Bankruptcy Law**"), (A) commences a bankruptcy voluntary case, (B) consents to the entry of an order for relief against it in an involuntary bankruptcy case, (C) consents to the appointment of a receiver, trustee, assignee, liquidator or similar official (a "**Custodian**"), or (D) makes a general assignment for the benefit of its creditors;

(viii) a court of competent jurisdiction enters an order or decree under any Bankruptcy Law that (A) is for relief against the Company or any of its Subsidiaries in an involuntary case, (B) appoints a Custodian of the Company or any of its Subsidiaries or (C) orders the liquidation of the Company or any of its Subsidiaries and the continuance of any such decree, order, judgment or other similar document or any such other decree, order, judgment or other similar document unstayed and in effect for a period of thirty (30) days;

(ix) a final judgment or judgments for the payment of money aggregating in excess of \$2,000,000 are rendered against the Company or any of its Subsidiaries with respect to claims or actions arising out of events that shall have occurred subsequent to the Issuance Date and which judgments are not, within forty-five (45) days after the entry thereof, bonded, discharged or stayed pending appeal, or are not discharged within forty-five (45) days after the expiration of such stay; provided, however, that any judgment which is covered by insurance or an indemnity from a credit worthy party shall not be included in calculating the \$2,000,000 amount set forth above so long as the Company provides the Holder a written statement from such insurer or indemnity provider (which written statement shall be reasonably satisfactory to the Holder) to the effect that such judgment is covered by insurance or an indemnity;

(x) other than as specifically set forth in another clause of this Section 4(a), the Company or any of its Subsidiaries breaches any representation, warranty, covenant or other term or condition of any Transaction Document, except, in the case of a breach of a covenant or other term or condition of any Transaction Document which is curable, only if such breach continues for a period of at least an aggregate of twenty (20) days following the Required Holders' delivery to the Company of notice of such breach;

(xi) any breach or failure in any respect to comply with Sections 13, 14 or 15 of this Note;

(xii) any material damage to, or loss, theft or destruction of a material amount of property of the Company, whether or not insured, or any strike, lockout, labor dispute, embargo, condemnation, act of God or public enemy, or other casualty which causes, for more than fifteen (15) consecutive days, the cessation or substantial curtailment of revenue producing activities (if any) at any facility of the Company or any Subsidiary and any such event or circumstance would reasonably be expected to have a Material Adverse Effect;

(xiii) any Material Adverse Effect occurs; or

(xiv) the Company fails to remove any restrictive legend on any certificate or any shares of Common Stock issued to the Holder upon conversion of this Note as and when required by this Note, unless such removal is then prohibited by applicable federal securities laws, and any such failure remains uncured for at least five (5) Trading Days.

(b) **Redemption Right.** At any time after the earlier of the Holder's receipt of an Event of Default Notice (as defined in Section 15(e)) and the Holder becoming aware of an Event of Default, the Required Holders may, subject to the lapse of any cure period applicable to such Event of Default, require the Company to redeem all or any portion of the Notes by delivering written notice thereof (the "**Event of Default Redemption Notice**") to the Company, which Event of Default Redemption Notice shall indicate the portion of the Notes the Required Holders are electing to require the Company to redeem. Each portion of this Note subject to redemption by the Company pursuant to this Section 4(b) shall be redeemed by the Company in cash by wire transfer of immediately available funds at a price equal to the Conversion Amount being redeemed (the "**Event of Default Redemption Price**"). Redemptions required by this Section 4(b) shall be made in accordance with the provisions of Section 11. To the extent redemptions required by this Section 4(b) are deemed or determined by a court of competent jurisdiction to be prepayments of the Note by the Company, such redemptions shall be deemed to be voluntary prepayments. Notwithstanding anything to the contrary in this Section 4, but subject to Section 3(d), until the Event of Default Redemption Price is paid in full, the Conversion Amount submitted for redemption under this Section 4(b) may be converted, in whole or in part, by the Holder into Common Stock pursuant to Section 3. Any such converted Conversion Amount shall reduce the Event of Default Redemption Price payment by an equivalent amount.

(c) **Redemption upon Bankruptcy Event of Default.** Notwithstanding anything to the contrary herein, and notwithstanding any conversion that is then required or in process, upon any Bankruptcy Event of Default, whether occurring prior to or following the Maturity Date, the Company shall immediately pay to the Holder an amount in cash equal to all outstanding Principal, accrued and unpaid Interest, if any, in addition to any and all other amounts due hereunder (the "**Bankruptcy Event of Default Redemption Price**" and the Event of Default Redemption Price, each a "**Redemption Price**"), without the requirement for any notice or demand or other action by the Holder or any other Person; provided that the Required Holders may waive such right to receive payment upon a Bankruptcy Event of Default, in whole or in part, on behalf of all Holders, and any such waiver shall not affect any other rights of the Holder hereunder, including any other rights in respect of such Bankruptcy Event of Default, any right to conversion, and any right to payment of the Event of Default Redemption Price or any other Redemption Price, as applicable. Redemptions required by this Section 4(c) shall be made in accordance with the provisions of Section 11.

(d) **Other Rights.** If an Event of Default shall have occurred and be continuing, the Required Holders may do any or all of the following: (a) enter (or cause their representatives to enter) the Company's property where the Collateral is located and take possession of the Collateral without demand or legal process; (b) require the Company to assemble and make available the Collateral at a specific time and place designated by the Required Holders; (c) sell, lease, or otherwise dispose of the Collateral at any public or private sale in accordance with the law; and (d) enforce payment of the Secured Obligations and exercise any rights and remedies available to the Required Holders under law, including, but not limited to, those rights and remedies available to the Required Holders under Article 9 of the UCC.

(5) EXPENSES. On the Issuance Date, the Company shall reimburse legal counsel to the Required Holders for fees and expenses in connection with the negotiation and preparation of the Notes up to \$50,000 in total, which amount may be retained by any such holder for payment to such legal counsel. The Company shall pay all Transfer Agent fees (including, without limitation, any fees required for same-day processing of any instruction letter delivered by the Company and any exercise notice delivered by Holder), stamp taxes and other taxes and duties levied in connection with the delivery of any Securities to the Holder (excluding any successors or assigns thereof).

(6) DISTRIBUTION OF ASSETS; RIGHTS UPON ISSUANCE OF PURCHASE RIGHTS.

(a) Distribution of Assets. If the Company shall, on or after the Subscription Date, declare or make any dividend or other distributions of its assets (or rights to acquire its assets) to any or all 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, Options, evidence of Indebtedness or any other assets by way of a dividend, spin off, reclassification, corporate rearrangement, scheme of arrangement or other similar transaction) (a “**Distribution**”), then the Holder will be entitled to such Distribution as if the Holder had held the number of shares of Common Stock acquirable upon complete conversion of this Note (without taking into account any limitations or restrictions on the convertibility of this Note) immediately prior to the date on which a record is taken for such Distribution or, if no such record is taken, the date as of which the record holders of Common Stock are to be determined for such Distributions [(provided, however, that to the extent that the Holder’s right to participate in any such Distribution would result in the Holder and the other Attribution Parties exceeding the Maximum Percentage, then the Holder shall not be entitled to participate in such Distribution to such extent (and shall not be entitled to beneficial ownership of such shares of Common Stock as a result of such Distribution (and beneficial ownership) to such extent) and the portion of such Distribution shall be held in abeyance for the Holder until such time or times as its right thereto would not result in the Holder and the other Attribution Parties exceeding the Maximum Percentage, at which time or times the Holder shall be granted such Distribution (and any Distributions declared or made on such initial Distribution or on any subsequent Distribution to be held similarly in abeyance) to the same extent as if there had been no such limitation)]³. Notwithstanding anything to the contrary contained in this Section 6(a), the Holder shall not be entitled to participate or otherwise receive any Distribution to the extent an adjustment to the Conversion Price is effected pursuant to Section 7 in respect of such Distribution.

(b) Purchase Rights. If at any time on or after the Subscription Date the Company grants, issues or sells any Options, Convertible Securities or rights to purchase stock, warrants, securities or other property pro rata to all of the record holders 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 this Note (without taking into account any limitations or restrictions on the convertibility of this Note) immediately prior to 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 and the other Attribution Parties exceeding the Maximum Percentage, then the Holder shall not be entitled to participate in such Purchase Right to such extent (and shall not be entitled to beneficial ownership of such shares of Common Stock as a result of such Purchase Right (and beneficial ownership) to such extent) and such Purchase Right to such extent shall be held in abeyance (and, if such Purchase Right has an expiration date, maturity date or other similar provision, such term shall be extended by such number of days held in abeyance, if applicable) for the Holder until such time or times as its right thereto would not result in the Holder and the other Attribution Parties exceeding the Maximum Percentage, at which time or times the Holder shall be granted such right (and any Purchase Right granted, issued or sold on such initial Purchase Right or on any subsequent Purchase Right to be held similarly in abeyance (and, if such Purchase Right has an expiration date, maturity date or other similar provision, such term shall be extended by such number of days held in abeyance, if applicable)) to the same extent as if there had been no such limitation)]⁴.

(7) ADJUSTMENTS TO CONVERSION PRICE. The Conversion Price will be subject to adjustment from time to time as provided in this Section 7.

(a) Adjustment of Conversion Price upon Subdivision or Combination of Common Stock. If the Company at any time on or after the Subscription Date subdivides (by any stock split, stock dividend,

recapitalization or otherwise) its outstanding shares of Common Stock into a greater number of shares, the Conversion Price in effect immediately prior to such subdivision will be proportionately reduced. If the Company at any time on or after the Subscription Date combines (by combination, reverse stock split or otherwise) its outstanding shares of Common Stock into a smaller number of shares, the Conversion Price in effect immediately prior to such combination will be proportionately increased. Any adjustment under this Section 7(a) shall become effective at the close of business on the date the subdivision or combination becomes effective.

(b) Voluntary Adjustment by Company. The Company may at any time during the term of this Note, with the prior written consent of the Required Holders of the Notes, reduce the then current Conversion Price of this Note to any amount and for any period of time deemed appropriate by the board of directors of the Company.

(8) [Reserved]

(9) NONCIRCUMVENTION. The Company hereby covenants and agrees that the Company will not, by amendment of its Certificate of Incorporation or Bylaws or through any reorganization, transfer of assets, consolidation, merger, scheme of arrangement, dissolution, issue or sale of securities, or any other voluntary action, avoid or seek to avoid the observance or performance of any of the terms of this Note, and will at all times in good faith carry out all of the provisions of this Note and take all action as may be required to protect the rights of the Holder of this Note.

(10) RESERVATION OF AUTHORIZED SHARES.

(a) Reservation. From and after the date the Issuance Date, the Company shall reserve a number of authorized and otherwise unreserved shares of Common Stock to satisfy its obligation to issue shares of Common Stock pursuant to the terms of this Note and the Other Notes equal to 100% of the maximum number of Conversion Shares issuable pursuant to the terms of the Notes (without regard to any limitation in Section 3(d) on the conversion of this Note) (the “**Required Reserve Amount**”). So long as any of this Note and the Other Notes are outstanding, the Company shall take all action necessary to reserve and keep available out of its authorized and unissued Common Stock the Required Reserve Amount solely for the purpose of issuing shares of Common Stock pursuant to the terms of this Note and the Other Notes. The initial number of shares of Common Stock reserved for issuances pursuant to the terms of this Note and the Other Notes and each increase in the number of shares so reserved shall be allocated pro rata among the Holder and the holders of the Other Notes based on the aggregate principal amount of this Note and of the Other Notes held by each holder at the Closing (as defined in the Securities Purchase Agreement) (the “**Authorized Share Allocation**”). In the event that a holder shall sell or otherwise transfer this Note or any of such holder’s Other Notes, each transferee shall be allocated a pro rata portion of such holder’s Authorized Share Allocation with respect to the portion of the Notes being transferred. Any shares of Common Stock reserved and allocated to any Person which ceases to hold any Notes shall be allocated to the Holder and the remaining holders of Other Notes, pro rata based on the outstanding Principal amount of this Note and the Other Notes then held by such holders.

(b) Insufficient Authorized Shares. If at any time while any of the Notes remain outstanding the Company does not have a sufficient number of authorized and unreserved shares of Common Stock to satisfy its obligation to reserve for issuance upon conversion of the Notes at least a number of shares of Common Stock equal to the Required Reserve Amount (an “**Authorized Share Failure**”), then the Company shall promptly take all action necessary to increase the Company’s authorized shares of Common Stock to an amount sufficient to allow the Company to reserve the Required Reserve Amount for the Notes then outstanding. Without limiting the generality of the foregoing sentence, as soon as practicable after the date of the occurrence of an Authorized Share Failure, but in no event later than ninety (90) days after the occurrence of such Authorized Share Failure, the Company shall hold a meeting of its stockholders for the approval of an increase in the number of authorized shares of Common Stock. In connection with such meeting, the Company shall provide each stockholder with a proxy statement and shall use its reasonable best efforts to solicit its stockholders’ approval of such increase in authorized shares of Common Stock and to cause its Board of Directors to recommend to the stockholders that they approve such proposal. Notwithstanding the foregoing, if during any such time of an Authorized Share Failure, the Company may cure the Authorized Share Failure by either (i) implementing a reverse stock split or (ii) obtaining the written consent of a majority of the shares of its issued and outstanding Common Stock to approve the increase in the number of authorized shares of Common

Stock and submitting for filing with the SEC an Information Statement on Schedule 14C. If, upon any conversion of this Note, the Company does not have sufficient authorized shares to deliver in satisfaction of such conversion, then unless the Holder elects to rescind such attempted conversion, the Holder may require the Company to pay to the Holder within two (2) Trading Days of the applicable Share Delivery Date for the attempted conversion, cash in an amount equal to the product of (i) the number of shares of Common Stock that the Company is unable to deliver in connection with such conversion, and (ii) the highest Closing Sale Price of the Common Stock during the period beginning on the date of the applicable Conversion Date and ending on the day immediately before the Company makes the applicable cash payment.

(11) REDEMPTIONS.

(a) Mechanics. The Company shall deliver the applicable Event of Default Redemption Price to the Holder within three (3) Business Days after the Company's receipt of the Required Holders' Event of Default Redemption Notice; provided that upon a Bankruptcy Event of Default, the Company shall deliver the applicable Bankruptcy Event of Default Redemption Price in accordance with Section 4(c) (as applicable, the "**Event of Default Redemption Date**"). The Company shall pay the applicable Redemption Price to the Holder in cash by wire transfer of immediately available funds pursuant to wire instructions provided by the Holder at least three Business Days prior to the applicable Event of Default Redemption Date in writing to the Company on the applicable Event of Default Redemption Date. In the event of a redemption of less than all of the Conversion Amount of this Note and a surrender of this Note by the Holder, the Company shall promptly cause to be issued and delivered to the Holder a new Note (in accordance with Section 18(d)) representing the outstanding Principal which has not been redeemed and any accrued Interest on such Principal which shall be calculated as if no Event of Default Redemption Notice has been delivered. In the event that the Company does not pay a Redemption Price to the Holder within the time period required, at any time thereafter and until the Company pays such unpaid Redemption Price in full, the Holder shall have the option, in lieu of redemption, to require the Company to promptly return to the Holder all or any portion of this Note representing the Conversion Amount that was submitted for redemption and for which the applicable Redemption Price has not been paid. Upon the Company's receipt of such notice, (x) the applicable Event of Default Redemption Notice shall be null and void with respect to such Conversion Amount, (y) the Company shall promptly return this Note, or issue a new Note (in accordance with Section 18(d)) to the Holder representing such Conversion Amount that was to have been redeemed and (z) the Conversion Price of this Note or such new Notes shall be the Conversion Price as in effect on the date on which the applicable Event of Default Redemption Notice is voided.

(b) Redemption Pro Rata. If the Company receives an Event of Default Redemption Notice and the Company is unable to redeem all principal, interest and other amounts designated in such Event of Default Redemption Notice, then the Company shall redeem, a pro rata amount from the Holder and each holder of the Other Notes based on the Principal amount of this Note and the Other Notes submitted for redemption pursuant to such Event of Default Redemption Notice.

(12) VOTING RIGHTS; NO RIGHTS AS A STOCKHOLDER. The Holder shall have no voting rights as the holder of this Note, except as required by the General Corporation Law of the State of Delaware.

(13) RANK; SECURITY.

(a) Rank. All payments due under this Note (i) shall rank *pari passu* with all Other Notes and (ii) shall be senior to all other Indebtedness of the Company and its Subsidiaries that, by the express terms of such Indebtedness, is subordinated to this Note and the Other Notes.

(b) Security. (i) For value received, the Company hereby grants to the Holder, to secure the payment and performance in full of all of the Secured Obligations (as defined in Section 13(b)(ii)), a security interest in the following properties, assets, and rights of the Company, wherever located, whether the Grantor now has or hereafter acquires an ownership or other interest or power to transfer, and all proceeds and products thereof, and all books and records relating thereto (all of the same being hereinafter called the "**Collateral**"): all personal and fixture property of every kind and nature including all goods (including inventory, equipment, and any accessions thereto), instruments (including promissory notes), documents (whether tangible or electronic), accounts (including health-care insurance receivables), chattel paper (whether tangible or electronic), money, deposit accounts, letters of credit, letter-of-credit

rights (whether or not the letter of credit is evidenced by a writing), commercial tort claims, securities and all other investment property, supporting obligations, and other contracts rights or rights to the payment of money, insurance claims and proceeds, tort claims, and all general intangibles (including all payment intangibles), in each case, where applicable, as defined in the Uniform Commercial Code as in effect in any relevant jurisdiction (the “UCC”).

(ii) The grant of security in Section 13(b)(i) secures the prompt and full performance and payment of all of the indebtedness, obligations, liabilities, and undertakings of the Company to the Holder, of any kind or description, individually or collectively, whether direct or indirect, joint or several, absolute or contingent, due or to become due, voluntary or involuntary, now existing or hereafter arising (including, all interest, fees (including attorneys’ fees), costs, and expenses that the Company is hereby or otherwise required to pay and perform pursuant to this Note or any other Transaction Document, by law or otherwise accruing before and after the filing of any petition in bankruptcy or the commencement of any insolvency, reorganization or like proceeding relating to the Company, whether or not a claim for post-petition interest, fees or expenses is allowed in such proceeding), irrespective of whether for the payment of money, under or in respect of this Note or any other Transaction Document, including instruments or agreements executed and delivered pursuant thereto or in connection therewith (the “**Secured Obligations**”).

(iii) The Company agrees that at any time and from time to time, at the expense of the Company, the Company will promptly execute and deliver all further instruments and documents and take all further action, that may be necessary, or that the Holder may reasonably request, in order to create and/or maintain the validity, perfection or priority of and protect any security interest granted or purported to be granted hereby or to enable the Holder to exercise and enforce its rights and remedies hereunder or under any other agreement with respect to any Collateral, upon a determination by the Required Holders to take such action. The Company hereby authorizes the Holder to file or record any document necessary to perfect, continue, amend, or terminate its security interest in the Collateral, including, but not limited to, any financing statements, including amendments, authorized to be filed under the UCC, without signature of the Company where permitted by law, including the filing of a financing statement describing the Collateral as all assets now owned or hereafter acquired by the Company, or words of similar effect.

(14) **NEGATIVE COVENANTS.** Except as noted below, until all of the Notes have been converted, redeemed or otherwise satisfied in full in accordance with their terms, the Company shall not, and the Company shall not permit any of its Subsidiaries without the prior written consent of the Required Holders to, directly or indirectly by merger or otherwise:

(a) incur or guarantee, assume or suffer to exist any Indebtedness, other than Permitted Indebtedness;

(b) redeem, defease, repurchase, repay or make any payments in respect of, by the payment of cash or cash equivalents (in whole or in part, whether by way of open market purchases, tender offers, private transactions or otherwise), all or any portion of any Indebtedness (other than this Note and the Other Notes), whether by way of payment in respect of principal of (or premium, if any) or interest on, such Indebtedness if at the time such payment is due or is otherwise made or, after giving effect to such payment, an event constituting, or that with the passage of time and without being cured would constitute, an Event of Default has occurred and is continuing;

(c) redeem, defease, repurchase, repay or make any payments in respect of, by the payment of cash or cash equivalents (in whole or in part, whether by way of open market purchases, tender offers, private transactions or otherwise), all or any portion of any Indebtedness (including, without limitation Permitted Indebtedness other than this Note and the Other Notes), by way of payment in respect of principal of (or premium, if any, on) such Indebtedness prior to its stated maturity; provided, that this restriction shall not preclude the payment of regularly scheduled payments of interest and principal with respect to Permitted Indebtedness;

(d) redeem or repurchase any capital stock of the Company;

(e) declare or pay any cash dividend or distribution on any capital stock of the Company or of its Subsidiaries other than wholly-owned Subsidiaries;

(f) make, any fundamental change in the nature of its business as described in the Company's most recent Annual Report filed on Form 10-K with the SEC;

(g) enter into, renew, extend or be a party to, any transaction or series of related transactions (including, without limitation, the purchase, sale, lease, license, transfer or exchange of property or assets of any kind or the rendering of services of any kind) with any Affiliate, except for fair consideration and on terms no less favorable to it or its Subsidiaries than would be obtainable in a comparable arm's length transaction with a Person that is not an Affiliate thereof; or

(h) allow or suffer to exist any Lien other than Permitted Liens.

(15) AFFIRMATIVE COVENANTS. Until all of the Notes have been converted, redeemed or otherwise satisfied in full in accordance with their terms, the Company shall, and the Company shall cause each Subsidiary to, unless otherwise agreed to by the Required Holders, directly and indirectly:

(a) maintain and preserve its existence, rights and privileges, and become or remain duly qualified and in good standing in each jurisdiction in which the character of the properties owned or leased by it or in which the transaction of its business makes such qualification necessary, except to the extent that the failure to become or remain so duly qualified and in good standing would not reasonably be expected to have a Material Adverse Effect;

(b) maintain and preserve all of its material properties which are necessary or useful in the conduct of its business in good working order and condition, ordinary wear and tear excepted;

(c) take all action necessary or advisable to maintain all of the Intellectual Property Rights necessary or material to the conduct of its business in full force and effect;

(d) maintain insurance with responsible and reputable insurance companies or associations (including, without limitation, comprehensive general liability, hazard, rent and business interruption insurance) with respect to its properties (including all real properties leased or owned by it) and business, in such amounts and covering such risks as is required by any governmental authority having jurisdiction with respect thereto or as is carried generally in accordance with sound business practice by companies in similar businesses similarly situated; and

(e) promptly, but in any event within one (1) Business Day, notify the Holder and the holders of the Other Notes in writing whenever the Company becomes, or should have reasonably become, aware an Event of Default (an "**Event of Default Notice**") has occurred.

(16) VOTE TO ISSUE, OR CHANGE THE TERMS OF, NOTES. The affirmative vote at a meeting duly called for such purpose or the written consent without a meeting of the Required Holders (in addition to the written consent of the Company) shall be required for any amendment or waiver of any provision to this Note or any of the Other Notes. Any amendment or waiver by the Company and the Required Holders shall be binding on the Holder of this Note and all holders of the Other Notes, provided that if any amendment, modification or waiver disproportionately and adversely impacts a Holder (or group of Holders), the consent of such Holder (or, the holders of Notes representing at least two-thirds of the aggregate principal amount of the Notes of such disproportionately impacted group of Holders) shall also be required. This provision constitutes a separate right granted to each of the holders of Notes by the Company and shall not in any way be construed as such holders acting in concert or as a group with respect to the purchase, disposition or voting of securities or otherwise. The Company hereby covenants and agrees that if, and whenever on or after the date hereof, the Company and the Required Holders amend or modify any term of any of the Other Notes held by any Person (each document amending such terms, an "**Amendment Document**"), then (i) the Company shall provide notice thereof to the Holder immediately following the occurrence thereof and (ii) the terms and conditions of this Note shall be, without any further action by the Holder or the Company, automatically amended and modified in an economically and legally equivalent manner such that the Holder shall receive the benefit of such amended or modified terms and/or conditions (as the case may be) set forth in such Amendment Document, provided that upon written notice to the Company at any time the Holder may elect not to accept the benefit of any such amended or modified term or condition, in which event the term or condition contained in this Note shall apply to the Holder as it was in effect immediately prior to such amendment or modification as if

such amendment or modification never occurred with respect to the Holder. The provisions of the foregoing sentence shall apply similarly and equally to each Amendment Document.

(17) TRANSFER. This Note and any shares of Common Stock issued upon conversion of this Note may be offered, sold, assigned or transferred by the Holder without the consent of the Company, subject only to the provisions of Section 4.1 of the Securities Purchase Agreement.

(18) REISSUANCE OF THIS NOTE.

(a) Transfer. If this Note is to be transferred, the Holder shall surrender this Note to the Company, whereupon the Company will forthwith issue and deliver upon the order of the Holder a new Note (in accordance with Section 18(d) and subject to Section 3(c)(iii)), registered as the Holder may request, representing the outstanding Principal being transferred by the Holder and, if less than the entire outstanding Principal is being transferred, a new Note (in accordance with Section 18(d)) to the Holder representing the outstanding Principal not being transferred. The Holder and any assignee, by acceptance of this Note, acknowledge and agree that, by reason of the provisions of Section 3(c)(iii) following conversion or redemption of any portion of this Note, the outstanding Principal represented by this Note may be less than the Principal stated on the face of this Note.

(b) Lost, Stolen or Mutilated Note. Upon receipt by the Company of evidence reasonably satisfactory to the Company of the loss, theft, destruction or mutilation of this Note, and, in the case of loss, theft or destruction, of any indemnification undertaking by the Holder to the Company in customary form (but without any obligation to post a surety or other bond) and, in the case of mutilation, upon surrender and cancellation of this Note, the Company shall execute and deliver to the Holder a new Note (in accordance with Section 18(d)) representing the outstanding Principal.

(c) Note Exchangeable for Different Denominations. This Note is exchangeable, upon the surrender hereof by the Holder at the principal office of the Company, for a new Note or Notes (in accordance with Section 18(d)) representing in the aggregate the outstanding Principal of this Note, and each such new Note will represent such portion of such outstanding Principal as is designated by the Holder at the time of such surrender.

(d) Issuance of New Notes. Whenever the Company is required to issue a new Note pursuant to the terms of this Note, such new Note (i) shall be of like tenor with this Note, (ii) shall represent, as indicated on the face of such new Note, the Principal remaining outstanding (or in the case of a new Note being issued pursuant to Section 18(a) or Section 18(c), the Principal designated by the Holder which, when added to the principal represented by the other new Notes issued in connection with such issuance, does not exceed the Principal remaining outstanding under this Note immediately prior to such issuance of new Notes), (iii) shall have an issuance date, as indicated on the face of such new Note, which is the same as the Issuance Date of this Note, (iv) shall have the same rights and conditions as this Note, and (v) shall represent accrued and unpaid Interest, if any, from the Issuance Date or from the most recent date to which interest had been paid or provided for.

(19) REMEDIES, CHARACTERIZATIONS, OTHER OBLIGATIONS, BREACHES AND INJUNCTIVE RELIEF. The remedies provided in this Note shall be cumulative and in addition to all other remedies available under this Note and any of the other Transaction Documents at law or in equity (including a decree of specific performance and/or other injunctive relief). No remedy contained herein shall be deemed a waiver of compliance with the provisions giving rise to such remedy. Nothing herein shall limit the Holder's right to pursue actual and consequential damages for any failure by the Company to comply with the terms of this Note. The Company covenants to the Holder that there shall be no characterization concerning this instrument other than as expressly provided herein. Amounts set forth or provided for herein with respect to payments, conversion, redemption and the like (and the computation thereof) shall be the amounts to be received by the Holder and shall not, except as expressly provided herein, be subject to any other obligation of the Company (or the performance thereof). The Company acknowledges that a breach by it of its obligations hereunder will cause irreparable harm to the Holder and that the remedy at law for any such breach may be inadequate. The Company therefore agrees that, in the event of any such breach or threatened breach, the Holder shall be entitled, in addition to all other available remedies, to an injunction restraining any breach, without the necessity of showing economic loss and without any bond or other security being required, to the extent permitted under applicable law.

(20) PAYMENT OF COLLECTION, ENFORCEMENT AND OTHER COSTS. If (a) this Note is placed in the hands of an attorney for collection or enforcement or is collected or enforced through any legal proceeding or the Holder otherwise takes action to collect amounts due under this Note or to enforce the provisions of this Note or (b) there occurs any bankruptcy, reorganization, receivership of the Company or other proceedings affecting Company creditors' rights and involving a claim under this Note, then the Company shall pay the reasonable costs incurred by the Holder for such collection, enforcement or action or in connection with such bankruptcy, reorganization, receivership or other proceeding, including, but not limited to, attorneys' fees and disbursements. The Company expressly acknowledges and agrees that no amounts due under this Note shall be affected, or limited, by the fact that the purchase price paid for this Note was less than the original Principal amount hereof.

(21) CONSTRUCTION; HEADINGS. This Note shall be deemed to be jointly drafted by the Company and all the Purchasers and shall not be construed against any such Person as the drafter hereof. The headings of this Note are for convenience of reference and shall not form part of, or affect the interpretation of, this Note.

(22) FAILURE OR INDULGENCE NOT WAIVER. No failure or delay on the part of the Holder in the exercise of any power, right or privilege hereunder shall operate as a waiver thereof, nor shall any single or partial exercise of any such power, right or privilege preclude other or further exercise thereof or of any other right, power or privilege. No waiver shall be effective unless it is in writing and signed by an authorized representative of the waiving party.

(23) DISPUTE RESOLUTION. In the case of a dispute as to the determination of the Closing Bid Price or the Closing Sale Price or the arithmetic calculation of the Conversion Rate, the Conversion Price or any Redemption Price, the Company shall pay the applicable Redemption Price that is not disputed or shall cause the Transfer Agent to issue to the Holder the number of shares of Common Stock that is not disputed, and the Company shall submit the disputed determinations or arithmetic calculations via electronic mail within three (3) Business Days of receipt, or deemed receipt, of the Conversion Notice or Event of Default Redemption Notice or other event giving rise to such dispute, as the case may be, to the Holder. If the Required Holders and the Company are unable to agree upon such determination or calculation within three (3) Business Days of such disputed determination or arithmetic calculation being submitted to the Holder, then the Company shall, within five (5) Business Days submit via electronic mail (a) the disputed determination of the Closing Bid Price or the Closing Sale Price to an independent, reputable investment bank selected by the Required Holders and approved by the Company, such approval not to be unreasonably withheld, conditioned or delayed, or (b) the disputed arithmetic calculation of the Conversion Rate, Conversion Price or any Redemption Price to an independent, outside accountant, selected by the Required Holders and approved by the Company, such approval not to be unreasonably withheld, conditioned or delayed. The Company, at the Company's expense, shall direct the investment bank or the accountant, as the case may be, to perform the determinations or calculations and notify the Company and the Required Holders of the results no later than five (5) Business Days from the time it receives the disputed determinations or calculations. Such investment bank's or accountant's determination or calculation, as the case may be, shall be binding upon all parties absent demonstrable error.

(24) NOTICES; PAYMENTS.

(a) Notices. Whenever notice is required to be given under this Note, unless otherwise provided herein, such notice shall be given in accordance with Section 5.4 of the Securities Purchase Agreement. The Company shall provide the Holder with prompt written notice of all actions taken pursuant to this Note, including in reasonable detail a description of such action and the reason therefor. Without limiting the generality of the foregoing, the Company shall give written notice to the Holder (i) promptly (and in any event within one Business Day) following any adjustment of the Conversion Price, setting forth in reasonable detail, and certifying, the calculation of such adjustment and (ii) at least ten (10) Business Days prior to the date on which the Company closes its books or takes a record (A) with respect to any dividend or distribution upon the shares of Common Stock, or (B) with respect to any grants, issuances or sales of any Options, Convertible Securities or rights to purchase stock, warrants, securities or other property to all of the holders of shares of Common Stock (and in respect of such shares of Common Stock).

(b) Payments. Whenever any payment of cash is to be made by the Company to any Person pursuant to this Note, such payment shall be made in lawful money of the United States of America via wire transfer of immediately available funds to an account designated by the Holder; provided, that the Holder, upon written notice to the Company, may elect to receive a payment of cash in lawful money of the United States of America by a check

drawn on the account of the Company and sent via overnight courier service to such Person at such address as previously provided to the Company in writing (which address, in the case of each of the Purchasers, shall initially be as set forth on the signature pages attached to the Securities Purchase Agreement). Whenever any amount expressed to be due by the terms of this Note is due on any day which is not a Business Day, the same shall instead be due on the next succeeding day which is a Business Day.

(25) CANCELLATION. After all Principal, any accrued Interest and any other amounts at any time owed on this Note have been paid in full (including as a result of a conversion of all Principal, any accrued Interest and any other amounts at any time owed on this Note pursuant to the Section 3 of this Note), this Note shall automatically be deemed canceled, satisfied and discharged and shall not be reissued, sold or transferred.

(26) WAIVER OF NOTICE. To the extent permitted by law, the Company hereby waives demand, notice, protest and all other demands and notices in connection with the delivery, acceptance, performance, default or enforcement of this Note and the Securities Purchase Agreement.

(27) GOVERNING LAW; JURISDICTION; JURY TRIAL. This Note shall be governed by and construed and enforced in accordance with, and all questions concerning the construction, validity, interpretation and performance of this Note shall be governed by, the internal laws of the State of New York, without giving effect to any choice of law or conflict of law provision or rule (whether of the State of New York or any other jurisdictions) that would cause the application of the laws of any jurisdictions other than the State of New York. Each of the Company and the Holder hereby irrevocably submits to the exclusive jurisdiction of the state and federal courts sitting in The City of New York, Borough of Manhattan, for the adjudication of any dispute hereunder or in connection herewith or with any transaction contemplated hereby or discussed herein, 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 any such court, that such suit, action or proceeding is brought in an inconvenient forum or that the venue of such suit, action or proceeding is improper. Nothing contained herein shall be deemed or operate to preclude the Holder from bringing suit or taking other legal action against the Company in any other jurisdiction to collect on the Company's obligations to the Holder, to realize on any collateral or any other security for such obligations, or to enforce a judgment or other court ruling in favor of the Holder upon a determination by the Required Holders to take such action. **THE COMPANY HEREBY IRREVOCABLY WAIVES ANY RIGHT IT MAY HAVE TO, AND AGREES NOT TO REQUEST, A JURY TRIAL FOR THE ADJUDICATION OF ANY DISPUTE HEREUNDER OR IN CONNECTION WITH OR ARISING OUT OF THIS NOTE OR ANY TRANSACTION CONTEMPLATED HEREBY.**

(28) SEVERABILITY. If any provision of this Note is prohibited by law or otherwise determined to be invalid or unenforceable by a court of competent jurisdiction, the provision that would otherwise be prohibited, invalid or unenforceable shall be deemed amended to apply to the broadest extent that it would be valid and enforceable, and the invalidity or unenforceability of such provision shall not affect the validity of the remaining provisions of this Note so long as this Note as so modified continues to express, without material change, the original intentions of the Company and the Holder as to the subject matter hereof and the prohibited nature, invalidity or unenforceability of the provision(s) in question does not substantially impair the respective expectations or reciprocal obligations of the Company or the Holder or the practical realization of the benefits that would otherwise be conferred upon the Company or the Holder. The Company and the Required Holders will endeavor in good faith negotiations to replace the prohibited, invalid or unenforceable provision(s) with a valid provision(s), the effect of which comes as close as possible to that of the prohibited, invalid or unenforceable provision(s).

(29) DISCLOSURE. In the event that the Company believes that a notice delivered to the Holder pursuant to the terms of this Note contains material, nonpublic information relating to the Company or its Subsidiaries, the Company so shall indicate to the Holder contemporaneously with delivery of such notice, and in the absence of any such indication, the Holder shall be allowed to presume that all matters relating to such notice do not constitute material, nonpublic information relating to the Company or its Subsidiaries.

(30) USURY. This Note is subject to the express condition that at no time shall the Company be obligated or required to pay interest hereunder at a rate or in an amount which could subject the Holder to either civil or criminal liability as a result of being in excess of the maximum interest rate or amount which the Company is permitted by applicable law to contract or agree to pay. If by the terms of this Note, the Company is at any time

required or obligated to pay interest hereunder, including by way of an original issue discount, at a rate or in an amount in excess of such maximum rate or amount, the rate or amount of interest under this Note shall be deemed to be immediately reduced to such maximum rate or amount and the interest payable shall be computed at such maximum rate or be in such maximum amount and all prior interest payments in excess of such maximum rate or amount shall be applied and shall be deemed to have been payments in reduction of the principal balance of this Note.

(31) CERTAIN DEFINITIONS. Capitalized terms used in this Note and not defined herein shall have the respective meanings ascribed thereto in the Securities Purchase Agreement. For purposes of this Note, the following terms shall have the following meanings:

(a) “**Affiliate**” shall have the meaning ascribed to such term in Rule 405 of the Securities Act.

[(b) “**Attribution Parties**” means, collectively, the following Persons: (i) any investment vehicle, including, any funds, feeder funds or managed accounts, currently, or from time to time after the Issuance Date, directly or indirectly managed or advised by the Holder’s investment manager or any of its Affiliates or principals, (ii) any direct or indirect Affiliates of the Holder or any of the foregoing, (iii) any Person acting or who could be deemed to be acting as a Group together with the Holder or any of the foregoing and (iv) any other Person whose beneficial ownership of the Common Stock would or could be aggregated with the Holder’s and the other Attribution Parties for purposes of Section 13(d) of the Exchange Act. For clarity, the purpose of the foregoing is to subject collectively the Holder and all other Attribution Parties to the Maximum Percentage.]⁵

(c) “**Bloomberg**” means Bloomberg Financial Markets.

(d) “**Business Day**” means any day other than Saturday, Sunday or other day on which commercial banks in The City of New York are authorized or required by law to remain closed; provided, however, for clarification, commercial banks shall not be deemed to be authorized or required by law to remain closed due to “stay at home”, “shelter-in-place”, “non-essential employee” or any other similar orders or restrictions or the closure of any physical branch locations at the direction of any governmental authority so long as the electronic funds transfer systems (including for wire transfers) of commercial banks in The City of New York, New York generally are open for use by customers on such day.

(e) “**Closing Bid Price**” and “**Closing Sale Price**” means, for any security as of any date, the last closing bid price and last closing trade price, respectively, for such security on the Principal Market, as reported by Bloomberg, or, if the Principal Market begins to operate on an extended hours basis and does not designate the closing bid price or the closing trade price, as the case may be, then the last bid price or last trade price, respectively, of such security prior to 4:00:00 p.m., New York Time, as reported by Bloomberg, or, if the Principal Market is not the principal securities exchange or trading market for such security, the last closing bid price or last trade price, respectively, of such security on the principal securities exchange or trading market where such security is listed or traded as reported by Bloomberg, or if the foregoing do not apply, the last closing bid price or last trade price, respectively, of such security in the over-the-counter market on the electronic bulletin board for such security as reported by Bloomberg, or, if no closing bid price or last trade price, respectively, is reported for such security by Bloomberg, the average of the bid prices, or the ask prices, respectively, of any market makers for such security as reported on the Pink Open Market (f/k/a OTC Pink) published by OTC Markets Group, Inc. (or a similar organization or agency succeeding to its functions of reporting prices). If the Closing Bid Price or the Closing Sale Price cannot be calculated for a security on a particular date on any of the foregoing bases, the Closing Bid Price or the Closing Sale Price, as the case may be, of such security on such date shall be the fair market value as mutually determined by the Company and the Holder. If the Company and the Holder are unable to agree upon the fair market value of such security, then such dispute shall be resolved pursuant to Section 23. All such determinations to be appropriately adjusted for any stock dividend, stock split, stock combination, reclassification or other similar transaction relating to the Common Stock during the applicable calculation period.

(f) “**Closing Date**” shall have the meaning set forth in the Securities Purchase Agreement, which date is the date the Company initially issued Notes pursuant to the terms of the Securities Purchase Agreement.

(g) “**Common Stock**” means (i) the Company’s shares of common stock, par value \$0.0001 per share, and (ii) any capital stock into which such Common Stock shall be changed or any capital stock resulting from a reorganization, recapitalization or reclassification of such Common Stock.

(h) “**Contingent Obligation**” means, as to any Person, any direct or indirect liability, contingent or otherwise, of that Person with respect to any Indebtedness, lease, dividend or other obligation of another Person if the primary purpose or intent of the Person incurring such liability, or the primary effect thereof, is to provide assurance to the obligee of such liability that such liability will be paid or discharged, or that any agreements relating thereto will be complied with, or that the holders of such liability will be protected (in whole or in part) against loss with respect thereto.

(i) “**Conversion Shares**” means shares of Common Stock issuable by the Company pursuant to the terms of the Notes.

(j) “**Convertible Securities**” means any stock or securities (other than Options) directly or indirectly convertible into or exercisable or exchangeable for shares of Common Stock.

(k) “**Eligible Market**” means the Principal Market, The New York Stock Exchange, The Nasdaq Global Market, The Nasdaq Global Select Market, the NYSE American or any tier of OTC Markets.

(l) “**Exchange Act**” means the Securities Exchange Act of 1934, as amended.

(m) “**GAAP**” means United States generally accepted accounting principles, consistently applied during the periods involved.

(n) “**Group**” means a “group” as that term is used in Section 13(d) of the Exchange Act and as defined in Rule 13d-5 thereunder.

(o) “**Indebtedness**” of any Person means, without duplication (i) all indebtedness for borrowed money, (ii) all obligations issued, undertaken or assumed as the deferred purchase price of property or services, including (without limitation) “finance leases” in accordance with GAAP (other than trade payables entered into in the ordinary course of business), (iii) all reimbursement or payment obligations with respect to letters of credit, surety bonds and other similar instruments (in each case, solely to the extent drawn), (iv) all obligations evidenced by notes, bonds, debentures or similar instruments, including obligations so evidenced incurred in connection with the acquisition of property, assets or businesses, (v) all indebtedness created or arising under any conditional sale or other title retention agreement, or incurred as financing, in either case with respect to any property or assets acquired with the proceeds of such indebtedness (even though the rights and remedies of the seller or bank under such agreement in the event of default are limited to repossession or sale of such property), (vi) all indebtedness referred to in clauses (i) through (v) of a Person, other than the Company or any of its subsidiaries, above secured by (or for which the holder of such Indebtedness has an existing right, contingent or otherwise, to be secured by) a Lien upon any property or assets (including accounts and contract rights) owned by the Company or any of its subsidiaries (provided, that the amount of such indebtedness shall be the lesser of the fair market value of such property or assets and the amount of the obligation so secured), and (vii) all Contingent Obligations in respect of indebtedness or obligations of others of the kinds referred to in clauses (i) through (vi) above.

(p) “**Intellectual Property Rights**” means all patents, patent applications, trademarks, trademark applications, service marks, trade names, trade secrets, inventions, copyrights, licenses and other intellectual property rights and similar rights necessary or required for use in connection with the respective businesses of the Company and its Subsidiaries as described in the SEC Reports and which the failure to so have could have a Material Adverse Effect.

(q) “**Lien**” means any mortgage, lien, pledge, charge, security interest or other encumbrance upon or in any property or assets (including accounts and contract rights) owned by the Company or any of its Subsidiaries.

(r) “**Material Adverse Effect**” means (i) a material adverse effect on the legality, validity or enforceability of any Transaction Document, (ii) a material adverse effect on the results of operations, assets, business, prospects or condition (financial or otherwise) of the Company and the Subsidiaries, taken as a whole, or (iii) a material adverse effect on the Company’s ability to perform in any material respect on a timely basis its obligations under any Transaction Document or (iv) the Lien created by Section 13(b) of this Note shall at any time fail to constitute a valid and perfected Lien on all of the Collateral purported to be encumbered thereby, subject to no prior or equal Lien except Permitted Liens and other than solely as a result of any action or inaction of Holder or provided that such action or inaction is not caused by the Company’s failure to comply with the terms hereof, or the Company or any representative thereof shall so assert.

(s) “**Options**” means any rights, warrants or options to subscribe for or purchase (i) shares of Common Stock or (ii) Convertible Securities.

(t) “**Permitted Indebtedness**” means (i) Indebtedness evidenced by this Note and the Other Notes, (ii) trade payables incurred in the ordinary course of business, (iii) unsecured Indebtedness incurred by the Company that is made expressly subordinate in right of payment to the Indebtedness evidenced by this Note and which Indebtedness does not provide at any time for the payment, prepayment, repayment, repurchase or defeasance, directly or indirectly, of any principal or premium, if any, thereon until ninety-one (91) days after the Maturity Date or later, (iv) obligations in respect of workers’ compensation claims, health, disability or other benefits, public liability insurance, unemployment insurance, property, casualty or liability insurance, self insurance obligations, bankers’ acceptances, or customs, completion, advance payment, performance, bid, performance, appeal and surety bonds, completion guarantees, letters of credit in connection with the maintenance of, or pursuant to the requirements of, environmental law or permits or licenses from governmental authorities, and other similar obligations provided by the Company or any Subsidiary in the ordinary course of business, including guarantees or obligations with respect to letters of credit supporting the foregoing, (v) purchase money Indebtedness (a) incurred to finance or reimburse the price of the acquisition, construction, development, design, installation or improvement by the Company or a Subsidiary of assets or (b) assumed in connection with the acquisition of any fixed or capital assets, in an aggregate principal amount which, when added together with the amount of Indebtedness Incurred pursuant to this clause (v) and then outstanding, does not exceed \$500,000, (vi) any obligation arising from agreements of the Company or any Subsidiary providing for indemnification, adjustment of purchase price, earn outs, or similar obligations, in each case, incurred or assumed in connection with the sale, disposition or acquisition of any business, assets, or investment, (vii) Indebtedness of the Company or any Subsidiary consisting of (A) the financing of insurance premiums or (B) take or pay obligations contained in ordinary course supply arrangements, (viii) Indebtedness of the Company or any Subsidiary in respect of any agreement or other arrangement governing the provision of treasury, cash management services or deposit account overdraft protection services, including deposit accounts, overdraft, credit or debit card, funds transfer, automated clearinghouse, zero balance accounts, returned check concentration, controlled disbursement, lockbox, account reconciliation and reporting and trade finance services and other cash management services, (ix) Indebtedness due to any landlord in connection with the financing by such landlord of leasehold improvements, (x) Indebtedness existing on December 29, 2023 as set forth in the SEC Reports and Section 3.1(bb) of the Disclosure Schedules, (xi) intercompany Indebtedness among the Company and any Subsidiaries, and (xii) Contingent Obligations in respect of Indebtedness otherwise permitted hereunder.

(u) “**Permitted Liens**” means (i) any Lien for taxes, assessments or governmental charges not yet due or delinquent or being contested in good faith by appropriate proceedings for which adequate reserves have been established in accordance with GAAP, (ii) any statutory Lien arising in the ordinary course of business by operation of law with respect to a liability that is not yet more than 30 days past due or delinquent, (iii) any Lien created by operation of law, such as materialmen’s liens, mechanics’ liens and other similar liens, arising in the ordinary course of business with respect to a liability that is not yet due or delinquent or that are being contested in good faith by appropriate proceedings, (iv) Liens (A) upon or in any equipment acquired or held by the Company or any of its Subsidiaries to secure the purchase price of such equipment or Indebtedness incurred solely for the purpose of financing the acquisition or lease of such equipment, or (B) existing on such equipment at the time of its acquisition, provided that the Lien is confined solely to the property so acquired and improvements thereon, and the proceeds of such equipment, (v) Liens incurred in connection with the extension, renewal or refinancing of the Indebtedness secured by Liens of the type described in clause (iv) above, provided that any extension, renewal or replacement Lien shall be limited to the property encumbered by the existing Lien and the principal amount of the Indebtedness being extended, renewed or refinanced does not increase, (vi) leases or subleases and licenses and sublicenses granted to

others in the ordinary course of the Company's business, not interfering in any material respect with the business of the Company and its Subsidiaries taken as a whole, (vii) Liens in favor of customs and revenue authorities arising as a matter of law to secure payments of custom duties in connection with the importation of goods, (viii) Liens arising from judgments, decrees or attachments in circumstances not constituting an Event of Default under Section 4(a) (ix), (ix) good faith deposits in connection with bids, tenders, contracts (other than for the payment of Indebtedness) or deposits under leases, (x) filing of UCC financing statements (or similar filings under applicable law) regarding operating leases or which otherwise do not relate to an effective security interest in any asset owned by the Company or any Subsidiary, (xi) survey exceptions, minor encumbrances, easements or reservations of, or rights of others for, licenses, rights-of-way, sewers, electric lines, telegraph and telephone lines and other similar purposes, or zoning or other restrictions as to the use of real property or Liens incidental to the conduct of the business of the Company or any Subsidiary or to the ownership of their respective properties which were not incurred in connection with Indebtedness and which do not in the aggregate materially adversely affect the value of said properties or materially impair their use in the operation of the Company's or such Subsidiary's business, (xii) Liens existing on the Issuance Date, (xiii) Liens to secure cash management services in the ordinary course of business, (xiv) Liens on insurance policies and the proceeds thereof securing the financing of the premiums with respect thereto, (xv) Liens on cash collateral accounts securing liabilities in respect of credit card facilities or merchant accounts, commodities accounts or brokerage accounts in the ordinary course of business and consistent with past practice, (xvi) Liens that are contractual rights of set-off relating to purchase orders and other agreements entered into with customers, suppliers or services providers of the Company or any Subsidiary in the ordinary course of business and purported Liens which are granted to a customer, supplier or service provider pursuant to the terms of a credit application or form agreement, (xvii) in the case of real property that constitutes a leasehold interest (a) any Lien to which the fee simple interest (or any superior leasehold interest) is subject or (b) any Lien in favor of a landlord on leasehold improvements in lease premises, (xviii) pledges or deposits under worker's compensation laws, unemployment insurance laws or similar legislation, and (xix) Liens arising under the Transaction Documents.

(v) "**Person**" means an individual, a limited liability company, a partnership, a joint venture, a corporation, a trust, an unincorporated organization, any other entity and any governmental entity or any department or agency thereof.

(w) "**Principal Market**" means the OTCQB.

(x) "**Purchaser**" shall have the meaning ascribed to such term in the Securities Purchase Agreement.

(y) "**Related Fund**" means, with respect to any Person, a fund or account managed by such Person or an Affiliate of such Person.

(z) "**Required Holders**" means the holders of Notes representing at least two-thirds of the aggregate principal amount of the Notes then outstanding.

(aa) "**Rule 144**" means Rule 144 promulgated by the SEC pursuant to the Securities Act, as such Rule may be amended or interpreted from time to time, or any similar rule or regulation hereafter adopted by the SEC having substantially the same purpose and effect as such Rule.

(bb) "**SEC**" means the United States Securities and Exchange Commission.

(cc) "**Securities Act**" means the Securities Act of 1933, as amended.

(dd) "**Securities Purchase Agreement**" means that certain securities purchase agreement dated as of the Subscription Date by and among the Company and the purchasers listed on the signature pages attached thereto pursuant to which the Company issued the Notes and Warrants, as may be amended, amended and restated, supplemented or otherwise modified from time to time in accordance with its terms.

(ee) "**Standard Settlement Period**" means the standard settlement period, expressed in a number of Trading Days, on the Principal Market, or, if the Principal Market is not the principal trading market for

the Common Stock on such day, then on the principal securities exchange or securities market on which the Common Stock is then traded as in effect on the date of delivery of the applicable Conversion Notice.

(ff) “**Subscription Date**” means December 29, 2023.

(gg) “**Subsidiary**” means any subsidiary of the Company and shall, where applicable, also include any direct or indirect subsidiary of the Company formed or acquired after the date hereof.

(hh) “**Trading Day**” means any day on which the Common Stock is traded on the Principal Market, or, if the Principal Market is not the principal trading market for the Common Stock on such day, then on the principal securities exchange or securities market on which the Common Stock is then traded.

(ii) “**Transaction Documents**” shall have the meaning ascribed to such term in the Securities Purchase Agreement.

(jj) “**Warrants**” shall have the meaning ascribed to such term in the Securities Purchase Agreement, and shall include all warrants issued in exchange therefor or replacement thereof.

[Signature Page Follows]

IN WITNESS WHEREOF, the Company has caused this Note to be duly executed as of the Issuance Date set out above.
COMERA LIFE SCIENCES HOLDINGS, INC.

By: _____

Name:

Title:

[Signature Page to Note]

ENDNOTES

^[1] [NTD: To reflect each purchaser's election.]

^[2] [NTD: Not applicable to Charles Cherington, The Alexander V. Soane 2019 Irrevocable Trust dated June 7, 2019 and The Nicholas V. Soane 2019 Irrevocable Trust dated June 7, 2019.]

^[3] [NTD: Not applicable to Charles Cherington, The Alexander V. Soane 2019 Irrevocable Trust dated June 7, 2019 and The Nicholas V. Soane 2019 Irrevocable Trust dated June 7, 2019.]

^[4] [NTD: Not applicable to Charles Cherington, The Alexander V. Soane 2019 Irrevocable Trust dated June 7, 2019 and The Nicholas V. Soane 2019 Irrevocable Trust dated June 7, 2019.]

^[5] [NTD: Not applicable to Charles Cherington, The Alexander V. Soane 2019 Irrevocable Trust dated June 7, 2019 and The Nicholas V. Soane 2019 Irrevocable Trust dated June 7, 2019.]

EXHIBIT I
COMERA LIFE SCIENCES HOLDINGS, INC.
CONVERSION NOTICE

Reference is made to the Senior Secured Convertible Note (the "**Note**") issued to the undersigned by Comera Life Sciences Holdings, Inc., a Delaware corporation (the "**Company**"). In accordance with and pursuant to the Note, the undersigned hereby elects to convert the Conversion Amount (as defined in the Note) of the Note indicated below into shares of Common Stock par value \$0.0001 per share (the "**Common Stock**") of the Company, as of the date specified below.

Date of Conversion: _____

Aggregate Conversion Amount to be converted or number of Conversion Shares to be issued upon conversion: _____

Please confirm the following information:

Conversion Price: _____

If Aggregate Conversion Amount is provided above, number of shares of Common Stock to be issued: _____

Please issue the Common Stock into which the Note is being converted to the Holder, or for its benefit, as follows:

Check here if requesting delivery as a certificate to the following name and to the following address:

Issue to: _____

Address: _____

Electronic Mail: _____

Check here if requesting delivery by Deposit/Withdrawal at Custodian as follows:

DTC Participant: _____

DTC Number: _____

Account Number: _____

Authorization: _____

By: _____

Title:

Dated:

Account Number:

(if electronic book entry transfer)

Transaction Code Number:

(if electronic book entry transfer)

ACKNOWLEDGMENT

The Company hereby acknowledges this Conversion Notice and hereby directs [_____] to issue the above indicated number of shares of Common Stock.

COMERA LIFE SCIENCES HOLDINGS, INC.

By: _____

Name:

Title:

NEITHER THIS SECURITY NOR THE SECURITIES FOR WHICH THIS SECURITY IS EXERCISABLE HAVE BEEN REGISTERED WITH THE SECURITIES AND EXCHANGE COMMISSION OR THE SECURITIES COMMISSION OF ANY STATE IN RELIANCE UPON AN EXEMPTION FROM REGISTRATION UNDER THE SECURITIES ACT OF 1933, AS AMENDED (THE “SECURITIES ACT”), AND, ACCORDINGLY, MAY NOT BE OFFERED OR SOLD EXCEPT PURSUANT TO AN EFFECTIVE REGISTRATION STATEMENT UNDER THE SECURITIES ACT OR PURSUANT TO AN AVAILABLE EXEMPTION FROM, OR IN A TRANSACTION NOT SUBJECT TO, THE REGISTRATION REQUIREMENTS OF THE SECURITIES ACT AND IN ACCORDANCE WITH APPLICABLE STATE SECURITIES LAWS. THIS SECURITY AND THE SECURITIES ISSUABLE UPON EXERCISE OF THIS SECURITY MAY BE PLEDGED IN CONNECTION WITH A BONA FIDE MARGIN ACCOUNT OR OTHER LOAN SECURED BY SUCH SECURITIES.

COMMON STOCK PURCHASE WARRANT

COMERA LIFE SCIENCES HOLDINGS, INC.

Warrant Shares: [●]¹

Issue Date: December 29, 2023

THIS COMMON STOCK PURCHASE WARRANT (the “Warrant”) certifies that, for value received, [HOLDER] or its assigns (the “Holder”) is entitled, upon the terms and subject to the limitations on exercise and the conditions hereinafter set forth, at any time on or after the Issue Date set forth above (the “Initial Exercise Date”) and on or prior to 5:00 p.m. (New York City time) on December 29, 2028 (the “Termination Date”) but not thereafter, to subscribe for and purchase from Comera Life Sciences Holdings, Inc., a Delaware corporation (the “Company”), up to [●] shares (as subject to adjustment hereunder, the “Warrant Shares”) of Common Stock. The purchase price of one share of Common Stock under this Warrant shall be equal to the Exercise Price, as defined in Section 2(b).

Section 1. Definitions. Capitalized terms used and not otherwise defined herein shall have the meanings set forth in that certain Securities Purchase Agreement (the “Purchase Agreement”), dated December 29, 2023, among the Company and the purchasers signatory thereto.

Section 2. Exercise.

a) Exercise of Warrant. Exercise of the purchase rights represented by this Warrant may be made, in whole or in part, at any time or times on or after the Initial Exercise Date and on or before the Termination Date by delivery to the Company of a duly executed facsimile copy or PDF copy submitted by e-mail (or e-mail attachment) of the Notice of Exercise in the form annexed hereto (the “Notice of Exercise”). Within the earlier of (i) two Trading Days and (ii) the number of Trading Days comprising the

Standard Settlement Period (as defined in Section 2(d)(i) herein) following the date of exercise as aforesaid, the Holder shall deliver the aggregate Exercise Price for the Warrant Shares specified in the applicable Notice of Exercise by wire transfer or cashier's check drawn on a United States bank, unless the cashless exercise procedure specified in Section 2(c) below is specified in the applicable Notice of Exercise. No ink-original Notice of Exercise shall be required, nor shall any medallion guarantee (or other type of guarantee or notarization) of any Notice of Exercise be required. Notwithstanding anything herein to the contrary, the Holder shall not be required to physically surrender this Warrant to the Company until the Holder has purchased all of the Warrant Shares available hereunder and the Warrant has been exercised in full, in which case, the Holder shall surrender this Warrant to the Company for cancellation within three Trading Days following the date on which the final Notice of Exercise is delivered to the Company. Partial exercises of this Warrant resulting in purchases of a portion of the total number of Warrant Shares available hereunder shall have the effect of lowering the outstanding number of Warrant Shares purchasable hereunder in an amount equal to the applicable number of Warrant Shares purchased. The Holder and the Company shall maintain records showing the number of Warrant Shares purchased and the date of such purchases. The Company shall deliver any objection to any Notice of Exercise within one Trading Day of receipt of such notice. **The Holder and any assignee, by acceptance of this Warrant, acknowledge and agree that, by reason of the provisions of this paragraph, following the purchase of a portion of the Warrant Shares hereunder, the number of Warrant Shares available for purchase hereunder at any given time may be less than the amount stated on the face hereof.**

b) Exercise Price. The exercise price per share of Common Stock under this Warrant shall be \$0.055 subject to adjustment as set forth herein (the "Exercise Price").

c) Cashless Exercise. This Warrant may be exercised, in whole or in part, at any time by means of a "cashless exercise" in which the Holder shall be entitled to receive a number of Warrant Shares equal to the quotient obtained by dividing [(A-B) (X)] by (A), where:

(A) = as applicable: (i) the VWAP on the Trading Day immediately preceding the date of the applicable Notice of Exercise if such Notice of Exercise is (1) both executed and delivered pursuant to Section 2(a) hereof on a day that is not a Trading Day or (2) both executed and delivered pursuant to Section 2(a) hereof on a Trading Day prior to the opening of "regular trading hours" (as defined in Rule 600(b) of Regulation NMS promulgated under the federal securities laws) on such Trading Day, (ii) at the option of the Holder, either (y) the VWAP on the Trading Day immediately preceding the date of the applicable Notice of Exercise or (z) the Closing Price of the Common Stock on the principal Trading Market as reported by Bloomberg L.P. ("Bloomberg") as of the time of the Holder's execution of the applicable Notice of Exercise if such Notice of Exercise is executed during "regular trading hours" on a Trading Day and is delivered within two hours thereafter (including until two hours after the close of "regular trading hours" on a Trading Day) pursuant to Section 2(a) hereof or (iii) the VWAP on the date of the applicable Notice of Exercise if the date of such Notice of Exercise is

a Trading Day and such Notice of Exercise is both executed and delivered pursuant to Section 2(a) hereof after the close of “regular trading hours” on such Trading Day;

(B) = the Exercise Price of this Warrant, as adjusted hereunder; and

(X) = the number of Warrant Shares that would be issuable upon exercise of this Warrant in accordance with the terms of this Warrant if such exercise were by means of a cash exercise rather than a cashless exercise.

If Warrant Shares are issued in such a cashless exercise, the parties acknowledge and agree that in accordance with Section 3(a)(9) of the Securities Act, the Warrant Shares shall take on the characteristics of the Warrants being exercised, and the holding period of the Warrant Shares being issued may be tacked on to the holding period of this Warrant. The Company agrees not to take any position contrary to this Section 2(c).

“Closing Price” means, for any date, the price determined by the first of the following clauses that applies: (a) if the Common Stock is then listed or quoted on a Trading Market, the closing price of the Common Stock for the time in question (or the nearest preceding date) on the Trading Market on which the Common Stock is then listed or quoted as reported by Bloomberg (based on a Trading Day from 9:30 a.m. (New York City time) to 4:02 p.m. (New York City time)), (b) if OTCQB or OTCQX is not a Trading Market, the volume weighted average price of the Common Stock for such date (or the nearest preceding date) on OTCQB or OTCQX as applicable, (c) if the Common Stock is not then listed or quoted for trading on OTCQB or OTCQX and if prices for the Common Stock are then reported on The Pink Open Market (or a similar organization or agency succeeding to its functions of reporting prices), the most recent closing price per share of the Common Stock so reported, or (d) in all other cases, the fair market value of a share of Common Stock as determined by an independent appraiser selected in good faith by the Purchasers of a majority in interest of the Securities then outstanding and reasonably acceptable to the Company, the fees and expenses of which shall be paid by the Company.

“VWAP” means, for any date, the price determined by the first of the following clauses that applies: (a) if the Common Stock is then listed or quoted on a Trading Market, the daily volume weighted average price of the Common Stock for such date (or the nearest preceding date) on the Trading Market on which the Common Stock is then listed or quoted as reported by Bloomberg (based on a Trading Day from 9:30 a.m. (New York City time) to 4:02 p.m. (New York City time)), (b) if OTCQB or OTCQX is not a Trading Market, the volume weighted average price of the Common Stock for such date (or the nearest preceding date) on OTCQB or OTCQX as applicable, (c) if the Common Stock is not then listed or quoted for trading on OTCQB or OTCQX and if prices for the Common Stock are then reported on The Pink Open Market (or a similar organization or agency succeeding to its functions of reporting prices), the most recent closing price per share of the Common Stock so reported, or (d) in all other cases, the fair market value of a share of Common Stock as determined by an independent appraiser selected in good faith by the Purchasers

of a majority in interest of the Securities then outstanding and reasonably acceptable to the Company, the fees and expenses of which shall be paid by the Company.

Notwithstanding anything herein to the contrary, if, on the Termination Date, (A) exceeds (B) in accordance with the formula and related definitions set forth in this Section 2(c), then on the Termination Date, any portion of this Warrant that remains unexercised as of such date shall be automatically exercised via cashless exercise pursuant to this Section 2(c).

d) Mechanics of Exercise.

i. Delivery of Warrant Shares Upon Exercise. The Company shall cause the Warrant Shares purchased hereunder to be transmitted by the Transfer Agent to the Holder by crediting the account of the Holder's or its designee's balance account with The Depository Trust Company through its Deposit or Withdrawal at Custodian system ("DWAC") if the Transfer Agent is then a participant in such system and either (A) there is an effective registration statement permitting the issuance of the Warrant Shares to or resale of the Warrant Shares by the Holder or (B) the Warrant Shares are eligible for resale by the Holder without volume or manner-of-sale limitations pursuant to Rule 144 (assuming cashless exercise of the Warrants), and otherwise by physical delivery of a certificate (or evidence of issuance of the Warrant Shares in book entry with the Transfer Agent), registered in the Company's share register in the name of the Holder or its designee, for the number of Warrant Shares to which the Holder is entitled pursuant to such exercise to the address specified by the Holder in the Notice of Exercise (or, in the case of book entry issuance of Warrant Shares, evidence of such issuance to the email address specified in such Notice of Exercise) by the date that is the earliest of (i) two Trading Days after the delivery to the Company of the Notice of Exercise, (ii) one Trading Day after delivery of the aggregate Exercise Price to the Company and (iii) the number of Trading Days comprising the Standard Settlement Period after the delivery to the Company of the Notice of Exercise (such date, the "Warrant Share Delivery Date"). Upon delivery of the Notice of Exercise, the Holder shall be deemed for all corporate purposes to have become the holder of record of the Warrant Shares with respect to which this Warrant has been exercised, irrespective of the date of delivery of the Warrant Shares, provided that payment of the aggregate Exercise Price (other than in the case of a cashless exercise) is received within the earlier of (i) two Trading Days and (ii) the number of Trading Days comprising the Standard Settlement Period following delivery of the Notice of Exercise. The Company agrees to maintain a transfer agent that is a participant in the FAST program so long as this Warrant remains outstanding and exercisable. If the Company fails for any reason to deliver to the Holder the Warrant Shares subject to a Notice of Exercise by the Warrant Share Delivery Date, the Company shall pay to the Holder, in cash, as liquidated damages and not as a penalty, for each \$1,000 of

Warrant Shares subject to such exercise (based on the VWAP of the Common Stock on the date of the applicable Notice of Exercise), \$10 per Trading Day (increasing to \$20 per Trading Day on the fifth Trading Day after such liquidated damages begin to accrue) for each Trading Day after such Warrant Share Delivery Date until such Warrant Shares are delivered or Holder rescinds such exercise. As used herein, “Standard Settlement Period” means the standard settlement period, expressed in a number of Trading Days, on the Company’s primary Trading Market with respect to the Common Stock as in effect on the date of delivery of the Notice of Exercise.

ii. Delivery of New Warrants Upon Exercise. If this Warrant shall have been exercised in part, the Company shall, at the request of a Holder and upon surrender of this Warrant certificate, at the time of delivery of the Warrant Shares, deliver to the Holder a new Warrant evidencing the rights of the Holder to purchase the unpurchased Warrant Shares called for by this Warrant, which new Warrant shall in all other respects be identical with this Warrant.

iii. Rescission Rights. If the Company fails to cause the Transfer Agent to transmit to the Holder the Warrant Shares pursuant to Section 2(d)(i) by the Warrant Share Delivery Date, then the Holder will have the right to rescind such exercise by delivering written notice to the Company at any time prior to the delivery of the Warrant Shares.

iv. Compensation for Buy-In on Failure to Timely Deliver Warrant Shares Upon Exercise. In addition to any other rights available to the Holder, if the Company fails to cause the Transfer Agent to transmit to the Holder the Warrant Shares in accordance with the provisions of Section 2(d)(i) above pursuant to an exercise on or before the Warrant Share Delivery Date, and if after such date the Holder is required by its broker to purchase (in an open market transaction or otherwise) or the Holder’s brokerage firm otherwise purchases for the Holder, shares of Common Stock to deliver in satisfaction of a sale by the Holder of the Warrant Shares which the Holder anticipated receiving upon such exercise (a “Buy-In”), then the Company shall (A) pay in cash to the Holder the amount, if any, by which (x) the Holder’s total purchase price (including brokerage commissions, if any) for the shares of Common Stock so purchased exceeds (y) the amount obtained by multiplying (1) the number of Warrant Shares that the Company was required to deliver to the Holder in connection with the exercise at issue times (2) the price at which the sell order giving rise to such purchase obligation was executed, and (B) at the option of the Holder, either reinstate the portion of the Warrant and equivalent number of Warrant Shares for which such exercise was not honored (in which case such exercise shall be deemed rescinded) or deliver to the Holder the number of shares of Common Stock that would have been issued had the Company timely complied

with its exercise and delivery obligations hereunder. For example, if the Holder purchases Common Stock having a total purchase price of \$11,000 to cover a Buy-In with respect to an attempted exercise of shares of Common Stock with an aggregate sale price giving rise to such purchase obligation of \$10,000, under clause (A) of the immediately preceding sentence the Company shall be required to pay the Holder \$1,000. The Holder shall provide the Company written notice indicating the amounts payable to the Holder in respect of the Buy-In and reasonable evidence of the amount of such loss upon request of the Company. Nothing herein shall limit a Holder's right to pursue any other remedies available to it hereunder, at law or in equity including, without limitation, a decree of specific performance and/or injunctive relief with respect to the Company's failure to timely deliver shares of Common Stock upon exercise of the Warrant as required pursuant to the terms hereof.

v. No Fractional Shares or Scrip. No fractional shares or scrip representing fractional shares shall be issued upon the exercise of this Warrant. As to any fraction of a share which the Holder would otherwise be entitled to purchase upon such exercise, the Company 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 Exercise Price or round up to the next whole share.

vi. Charges, Taxes and Expenses. Issuance of Warrant Shares shall be made without charge to the Holder for any issue or transfer tax or other incidental expense in respect of the issuance of such Warrant Shares, all of which taxes and expenses shall be paid by the Company, and such Warrant Shares shall be issued in the name of the Holder or in such name or names as may be directed by the Holder; provided, however, that, in the event that Warrant Shares are to be issued in a name other than the name of the Holder, this Warrant when surrendered for exercise shall be accompanied by the Assignment Form attached hereto duly executed by the Holder and the Company may require, as a condition thereto, the payment of a sum sufficient to reimburse it for any transfer tax incidental thereto. The Company shall pay all Transfer Agent fees required for same-day processing of any Notice of Exercise and all fees to the Depository Trust Company (or another established clearing corporation performing similar functions) required for same-day electronic delivery of the Warrant Shares.

vii. Closing of Books. The Company will not close its stockholder books or records in any manner which prevents the timely exercise of this Warrant, pursuant to the terms hereof.

e) [Holder's Exercise Limitations]. The Company shall not effect any exercise of this Warrant, and a Holder shall not have the right to exercise any portion of this Warrant, pursuant to Section 2 or otherwise, to the extent that after giving effect to such issuance after exercise

as set forth on the applicable Notice of Exercise, the Holder (together with the Holder's Affiliates, and any other Persons acting as a group together with the Holder or any of the 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 the Holder and its Affiliates and Attribution Parties shall include the number of shares of Common Stock issuable upon exercise of this Warrant with respect to which such determination is being made, but shall exclude the number of shares of Common Stock which would be issuable upon (i) exercise of the remaining, nonexercised portion of this Warrant beneficially owned by the Holder or any of its Affiliates or Attribution Parties and (ii) exercise or conversion of the unexercised or nonconverted portion of any other securities of the Company (including, without limitation, any other Common Stock Equivalents) subject to a limitation on conversion or exercise analogous to the limitation contained herein beneficially owned by the Holder or any of its Affiliates or Attribution Parties. Except as set forth in the preceding sentence, for purposes of this Section 2(e), beneficial ownership shall be calculated in accordance with Section 13(d) of the Exchange Act and the rules and regulations promulgated thereunder, it being acknowledged by the Holder that the Company is not representing to the Holder that such calculation is in compliance with Section 13(d) of the Exchange Act and the Holder is solely responsible for any schedules required to be filed in accordance therewith and the calculations required under this Section 2(e). To the extent that the limitation contained in this Section 2(e) applies, the determination of whether this Warrant is exercisable (in relation to other securities owned by the Holder together with any Affiliates and Attribution Parties) and of which portion of this Warrant is exercisable shall be in the sole discretion of the Holder, and the submission of a Notice of Exercise shall be deemed to be the Holder's determination of whether this Warrant is exercisable (in relation to other securities owned by the Holder together with any Affiliates and Attribution Parties) and of which portion of this Warrant is exercisable, in each case subject to the Beneficial Ownership Limitation, and the Company 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 2(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 reflected in (A) the Company's most recent periodic or annual report filed with the Commission, as the case may be, (B) a more recent public announcement by the Company or (C) a more recent written notice by the Company or the Transfer Agent setting forth the number of shares of Common Stock outstanding. Upon the written or oral request of a Holder, the Company shall within one Trading Day confirm orally and in writing to the 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 Company, including this Warrant, by the 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 $[4.99\%][9.99\%]^2$ of the number of shares of the Common Stock outstanding immediately after giving effect to the issuance of shares of Common Stock issuable upon exercise of this Warrant. The Holder, upon notice to the

Company, may increase or decrease the Beneficial Ownership Limitation provisions of this Section 2(e). Any increase in the Beneficial Ownership Limitation will not be effective until the 61st day after such notice is delivered to the Company. The provisions of this Section 2(e) shall be construed and implemented in a manner otherwise than in strict conformity with the terms of this Section 2(e) to correct this Section 2(e) (or any portion hereof) which may be defective or inconsistent with the intended Beneficial Ownership Limitation herein contained or to make changes or supplements necessary or desirable to properly give effect to such limitation. The limitations contained in this Section 2(e) shall apply to a successor holder of this Warrant.]³

Section 3. Certain Adjustments.

a) Stock Dividends and Splits. If the Company, at any time while this Warrant is outstanding: (i) pays a stock dividend or otherwise makes a distribution or distributions on shares of its Common Stock or any other equity or equity equivalent securities payable in shares of Common Stock (which, for avoidance of doubt, shall not include any shares of Common Stock issued by the Company upon exercise of this Warrant), (ii) subdivides outstanding shares of Common Stock into a larger number of shares, (iii) combines (including by way of reverse stock split) outstanding shares of Common Stock into a smaller number of shares, or (iv) issues by reclassification of shares of the Common Stock any shares of capital stock of the Company, then in each case the Exercise Price shall be multiplied by a fraction of which the numerator shall be the number of shares of Common Stock (excluding treasury shares, if any) outstanding immediately before such event and of which the denominator shall be the number of shares of Common Stock outstanding immediately after such event, and the number of shares issuable upon exercise of this Warrant shall be proportionately adjusted such that the aggregate Exercise Price of this Warrant shall remain unchanged. Any adjustment made pursuant to this Section 3(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) Subsequent Rights Offerings. In addition to any adjustments pursuant to Section 3(a) above, if at any time the Company 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 exercise of this Warrant [(without regard to any limitations on exercise hereof, including without limitation, the Beneficial Ownership Limitation)]⁴ 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, 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)]⁵;

c) Pro Rata Distributions. During such time as this Warrant is outstanding, if the Company shall declare or make 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 Warrant, 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 exercise of this Warrant [(without regard to any limitations on exercise 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, 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)]⁶;

d) Fundamental Transaction. If, at any time while this Warrant is outstanding, (i) the Company, directly or indirectly, in one or more related transactions effects any merger or consolidation of the Company with or into another Person (excluding a merger effected solely to change the Company’s name or domicile), (ii) the Company (and all of its Subsidiaries, taken as a whole), directly or indirectly, effects any sale, lease, license, assignment, transfer, conveyance or other disposition of all or substantially all of its assets in one or a series of related transactions, (iii) any, direct or indirect, purchase offer, tender offer or exchange offer (whether by the Company or another Person) is completed pursuant to which holders of Common Stock are permitted to sell, tender or exchange their shares for other securities, cash or property and has been accepted by the holders of 50% or more of the outstanding Common Stock, (iv) the Company, directly or indirectly, in one or more related transactions effects any reclassification, reorganization or recapitalization of the Common Stock or any compulsory share exchange pursuant to which the Common Stock is effectively converted into or exchanged for other securities, cash or property, or (v) the Company, directly or indirectly, in one or more related transactions consummates a stock or share purchase agreement or other business combination (including, without limitation, a reorganization, recapitalization, spin-off, merger or scheme of arrangement) with another Person or group of Persons whereby such other Person or group acquires more than 50% of the outstanding shares of Common Stock (not including any shares of Common Stock held by the other Person or other Persons making or party to, or associated or affiliated with the other Persons making or party to, such stock or share purchase agreement or other

business combination) (each a “Fundamental Transaction”), then, upon any subsequent exercise of this Warrant, the Holder shall have the right to receive, for each Warrant Share that would have been issuable upon such exercise immediately prior to the occurrence of such Fundamental Transaction, at the option of the Holder (without regard to any limitation in Section 2(e) on the exercise of this Warrant), the number of shares of Common Stock of the successor or acquiring corporation or of the Company, if it is the surviving corporation, and any additional consideration (the “Alternate Consideration”) receivable as a result of such Fundamental Transaction by a holder of the number of shares of Common Stock for which this Warrant is exercisable immediately prior to such Fundamental Transaction (without regard to any limitation in Section 2(e) on the exercise of this Warrant). For purposes of any such exercise, the determination of the Exercise Price shall be appropriately adjusted to apply to such Alternate Consideration based on the amount of Alternate Consideration issuable in respect of one share of Common Stock in such Fundamental Transaction, and the Company shall apportion the Exercise Price among the Alternate Consideration in a reasonable manner reflecting the relative value of any different components of the Alternate Consideration. If holders of Common Stock are given any choice as to the securities, cash or property to be received in a Fundamental Transaction, then the Holder shall be given the same choice as to the Alternate Consideration it receives upon any exercise of this Warrant following such Fundamental Transaction. The Company shall cause any successor entity in a Fundamental Transaction in which the Company is not the survivor (the “Successor Entity”) to assume in writing all of the obligations of the Company under this Warrant and the other Transaction Documents in accordance with the provisions of this Section 3(d) pursuant to written agreements in form and substance reasonably satisfactory to the Holder and approved by the Holder (without unreasonable delay) prior to such Fundamental Transaction and shall, at the option of the Holder, deliver to the Holder in exchange for this Warrant a security of the Successor Entity evidenced by a written instrument substantially similar in form and substance to this Warrant which is exercisable for a corresponding number of shares of capital stock of such Successor Entity (or its parent entity) equivalent to the shares of Common Stock acquirable and receivable upon exercise of this Warrant (without regard to any limitations on the exercise of this Warrant) prior to such Fundamental Transaction, and with an exercise price which applies the exercise price hereunder to such shares of capital stock (but taking into account the relative value of the shares of Common Stock pursuant to such Fundamental Transaction and the value of such shares of capital stock, such number of shares of capital stock and such exercise price being for the purpose of protecting the economic value of this Warrant immediately prior to the consummation of such Fundamental Transaction), and which is reasonably satisfactory in the form and substance to the Holder. Upon the occurrence of any such Fundamental Transaction, the Successor Entity shall succeed to, and be substituted for (so that from and after the date of such Fundamental Transaction, the provisions of this Warrant and the other Transaction Documents referring to the “Company” shall refer instead to the Successor Entity), and may exercise every right and power of the Company and shall assume all of the obligations of the Company under this Warrant and the other Transaction Documents with the same effect as if such Successor Entity had been named as the Company herein.

e) Calculations. All calculations under this Section 3 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 3,

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 treasury shares, if any) issued and outstanding.

f) Notice to Holder.

i. Adjustment to Exercise Price. Whenever the Exercise Price is adjusted pursuant to any provision of this Section 3, the Company shall promptly deliver to the Holder by facsimile or email a notice setting forth the Exercise Price after such adjustment and any resulting adjustment to the number of Warrant Shares and setting forth a brief statement of the facts requiring such adjustment.

ii. Notice to Allow Exercise by Holder. If (A) the Company shall declare a dividend (or any other distribution in whatever form) on the Common Stock, (B) the Company shall declare a special nonrecurring cash dividend on or a redemption of the Common Stock, (C) the Company shall authorize the granting to all holders of the Common Stock 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 Company shall be required in connection with any reclassification of the Common Stock, any consolidation or merger to which the Company is a party, any sale or transfer of all or substantially all of its assets, or any compulsory share exchange whereby the Common Stock is converted into other securities, cash or property, or (E) the Company shall authorize the voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Company, then, in each case, the Company shall cause to be delivered by facsimile or email to the Holder at its last facsimile number or email address as it shall appear upon the Warrant Register of the Company, at least 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. To the extent that any notice provided in this Warrant constitutes, or contains, material, non-public information regarding the Company or any of the Subsidiaries, the Company shall simultaneously file or furnish such information with the Commission pursuant to a Current Report on Form 8-K. The Holder shall

remain entitled to exercise this Warrant during the period commencing on the date of such notice to the effective date of the event triggering such notice except as may otherwise be expressly set forth herein.

Section 4. Transfer of Warrant.

a). Transferability. Subject to compliance with any applicable securities laws and the conditions set forth in Section 4(d) hereof and to the provisions of Section 4.1 of the Purchase Agreement, this Warrant and all rights hereunder are transferable, in whole or in part, upon surrender of this Warrant at the principal office of the Company or its designated agent, together with a written assignment of this Warrant substantially in the form attached hereto duly executed by the Holder or its agent or attorney and funds sufficient to pay any transfer taxes payable upon the making of such transfer. Upon such surrender and, if required, such payment, the Company shall execute and deliver a new Warrant or Warrants in the name of the assignee or assignees, as applicable, and in the denomination or denominations specified in such instrument of assignment, and shall issue to the assignor a new Warrant evidencing the portion of this Warrant not so assigned, and this Warrant shall promptly be cancelled. Notwithstanding anything herein to the contrary, the Holder shall not be required to physically surrender this Warrant to the Company unless the Holder has assigned this Warrant in full, in which case, the Holder shall surrender this Warrant to the Company within three Trading Days of the date on which the Holder delivers an assignment form to the Company assigning this Warrant in full. The Warrant, if properly assigned in accordance herewith, may be exercised by a new holder for the purchase of Warrant Shares without having a new Warrant issued.

b). New Warrants. This Warrant may be divided or combined with other Warrants upon presentation hereof at the aforesaid office of the Company, together with a written notice specifying the names and denominations in which new Warrants are to be issued, signed by the Holder or its agent or attorney. Subject to compliance with Section 4(a), as to any transfer which may be involved in such division or combination, the Company shall execute and deliver a new Warrant or Warrants in exchange for the Warrant or Warrants to be divided or combined in accordance with such notice. All Warrants issued on transfers or exchanges shall be dated the original Issue Date and shall be identical with this Warrant except as to the number of Warrant Shares issuable pursuant thereto.

c). Warrant Register. The Company shall register this Warrant, upon records to be maintained by the Company for that purpose (the "Warrant Register"), in the name of the record Holder hereof from time to time. The Company may deem and treat the registered Holder of this Warrant as the absolute owner hereof for the purpose of any exercise hereof or any distribution to the Holder, and for all other purposes, absent actual notice to the contrary.

d). Transfer Restrictions. If, at the time of the surrender of this Warrant in connection with any transfer of this Warrant, the transfer of this Warrant shall not be either (i) registered pursuant to an effective registration statement under the Securities Act and under applicable state securities or blue sky laws or (ii) eligible for resale without volume or manner-of-sale restrictions or current public information requirements pursuant to Rule

144, the Company may require, as a condition of allowing such transfer, that the Holder or transferee of this Warrant, as the case may be, comply with the provisions of Section 4.1 of the Purchase Agreement.

e). Representation by the Holder. The Holder, by the acceptance hereof, represents and warrants that it is acquiring this Warrant and, upon any exercise hereof, will acquire the Warrant Shares issuable upon such exercise, for its own account and not with a view to or for distributing or reselling such Warrant Shares or any part thereof in violation of the Securities Act or any applicable state securities law, except pursuant to sales registered or exempted under the Securities Act.

Section 5. Miscellaneous.

a). No Rights as Stockholder Until Exercise; No Settlement in Cash. This Warrant does not entitle the Holder to any voting rights, dividends or other rights as a stockholder of the Company prior to the exercise hereof as set forth in Section 2(d)(i), except as expressly set forth in Section 3. Without limiting any rights of a Holder to receive Warrant Shares on a “cashless exercise” pursuant to Section 2(c) or to receive cash payments pursuant to Section 2(d)(i) and Section 2(d)(iv) herein, in no event shall the Company be required to net cash settle an exercise of this Warrant.

b). Loss, Theft, Destruction or Mutilation of Warrant. The Company covenants that upon receipt by the Company of evidence reasonably satisfactory to it of the loss, theft, destruction or mutilation of this Warrant or any stock certificate relating to the Warrant Shares, and in case of loss, theft or destruction, of indemnity or security reasonably satisfactory to it (which, in the case of the Warrant, shall not include the posting of any bond), and upon surrender and cancellation of such Warrant or stock certificate, if mutilated, the Company will make and deliver a new Warrant or stock certificate of like tenor and dated as of such cancellation, in lieu of such Warrant or stock certificate.

c). Saturdays, Sundays, Holidays, etc. If the last or appointed day for the taking of any action or the expiration of any right required or granted herein shall not be a Trading Day, then such action may be taken or such right may be exercised on the next succeeding Trading Day.

d). Authorized Shares.

The Company covenants that, during the period the Warrant is outstanding, it will reserve from its authorized and unissued Common Stock a sufficient number of shares to provide for the issuance of the Warrant Shares upon the exercise of any purchase rights under this Warrant. The Company further covenants that its issuance of this Warrant shall constitute full authority to its officers who are charged with the duty of issuing the necessary Warrant Shares upon the exercise of the purchase rights under this Warrant. The Company will take all such reasonable action as may be necessary to assure that such Warrant Shares may be issued as provided herein without violation of any applicable law or regulation, or of any requirements of the Trading Market upon which the Common Stock may be listed. The Company covenants that all Warrant Shares which may be issued upon

the exercise of the purchase rights represented by this Warrant will, upon exercise of the purchase rights represented by this Warrant and payment for such Warrant Shares in accordance herewith, be duly authorized, validly issued, fully paid and nonassessable and free from all taxes, liens and charges created by the Company in respect of the issue thereof (other than taxes in respect of any transfer occurring contemporaneously with such issue).

Except and to the extent as waived or consented to by the Holder, the Company shall not by any action, including, without limitation, amending its certificate of incorporation or through any reorganization, transfer of assets, consolidation, merger, dissolution, issue or sale of securities or any other voluntary action, avoid or seek to avoid the observance or performance of any of the terms of this Warrant, but will at all times in good faith assist in the carrying out of all such terms and in the taking of all such actions as may be necessary or appropriate to protect the rights of Holder as set forth in this Warrant against impairment. Without limiting the generality of the foregoing, the Company will (i) not increase the par value of any Warrant Shares above the amount payable therefor upon such exercise immediately prior to such increase in par value, (ii) take all such action as may be necessary or appropriate in order that the Company may validly and legally issue fully paid and nonassessable Warrant Shares upon the exercise of this Warrant and (iii) use commercially reasonable efforts to obtain all such authorizations, exemptions or consents from any public regulatory body having jurisdiction thereof, as may be, necessary to enable the Company to perform its obligations under this Warrant.

Before taking any action which would result in an adjustment in the number of Warrant Shares for which this Warrant is exercisable or in the Exercise Price, the Company shall obtain all such authorizations or exemptions thereof, or consents thereto, as may be necessary from any public regulatory body or bodies having jurisdiction thereof.

e). Jurisdiction. All questions concerning the construction, validity, enforcement and interpretation of this Warrant shall be determined in accordance with the provisions of the Purchase Agreement.

f). Restrictions. The Holder acknowledges that the Warrant Shares acquired upon the exercise of this Warrant, if not registered, and the Holder does not utilize cashless exercise, will have restrictions upon resale imposed by state and federal securities laws.

g). Nonwaiver and Expenses. No course of dealing or any delay or failure to exercise any right hereunder on the part of Holder shall operate as a waiver of such right or otherwise prejudice the Holder's rights, powers or remedies. Without limiting any other provision of this Warrant or the Purchase Agreement, if the Company willfully and knowingly fails to comply with any provision of this Warrant, which results in any material damages to the Holder, the Company shall pay to the Holder such amounts as shall be sufficient to cover any costs and expenses including, but not limited to, reasonable attorneys' fees, including those of appellate proceedings, incurred by the Holder in collecting any amounts due pursuant hereto or in otherwise enforcing any of its rights, powers or remedies hereunder.

h) Notices. Any notice, request or other document required or permitted to be given or delivered to the Holder by the Company shall be delivered in accordance with the notice provisions of the Purchase Agreement.

i) Limitation of Liability. No provision hereof, in the absence of any affirmative action by the Holder to exercise this Warrant to purchase Warrant Shares, and no enumeration herein of the rights or privileges of the Holder, shall give rise to any liability of the Holder for the purchase price of any Common Stock or as a stockholder of the Company, whether such liability is asserted by the Company or by creditors of the Company.

j) Remedies. The Holder, in addition to being entitled to exercise all rights granted by law, including recovery of damages, will be entitled to specific performance of its rights under this Warrant. The Company agrees that monetary damages would not be adequate compensation for any loss incurred by reason of a breach by it of the provisions of this Warrant and hereby agrees to waive and not to assert the defense in any action for specific performance that a remedy at law would be adequate.

k) Successors and Assigns. Subject to applicable securities laws, this Warrant and the rights and obligations evidenced hereby shall inure to the benefit of and be binding upon the successors and permitted assigns of the Company and the successors and permitted assigns of Holder. The provisions of this Warrant are intended to be for the benefit of any Holder from time to time of this Warrant and shall be enforceable by the Holder or holder of Warrant Shares.

l) Amendment. This Warrant may be modified or amended or the provisions hereof waived only with the written consent of the Company and the Holder.

m) Severability. Wherever possible, each provision of this Warrant shall be interpreted in such manner as to be effective and valid under applicable law, but if any provision of this Warrant shall be prohibited by or invalid under applicable law, such provision shall be ineffective to the extent of such prohibition or invalidity, without invalidating the remainder of such provisions or the remaining provisions of this Warrant.

n) Headings. The headings used in this Warrant are for the convenience of reference only and shall not, for any purpose, be deemed a part of this Warrant.

o) Execution. This Warrant may be executed and delivered by facsimile transmission or by e-mail delivery of a “.pdf” or similar format data file, in which case such signature shall create a valid and binding obligation of the party executing (or on whose behalf such signature is executed) with the same force and effect as if such facsimile or “.pdf” or similar format signature page were an original thereof.

(Signature Page Follows)

ENDNOTES

^[1] NTD: To be two times the amount determined at closing based on the Principal of the Convertible Note and the Closing Price on the Trading Day immediately preceding the Issue Date.

^[2] NTD: To reflect each purchaser's election.

^[3] [NTD: Not applicable to Charles Cherington, The Alexander V. Soane 2019 Irrevocable Trust dated June 7, 2019 and The Nicholas V. Soane 2019 Irrevocable Trust dated June 7, 2019.]

^[4] [NTD: Not applicable to Charles Cherington, The Alexander V. Soane 2019 Irrevocable Trust dated June 7, 2019 and The Nicholas V. Soane 2019 Irrevocable Trust dated June 7, 2019.]

^[5] [NTD: Not applicable to Charles Cherington, The Alexander V. Soane 2019 Irrevocable Trust dated June 7, 2019 and The Nicholas V. Soane 2019 Irrevocable Trust dated June 7, 2019.]

^[6] [NTD: Not applicable to Charles Cherington, The Alexander V. Soane 2019 Irrevocable Trust dated June 7, 2019 and The Nicholas V. Soane 2019 Irrevocable Trust dated June 7, 2019.]

IN WITNESS WHEREOF, the Company has caused this Warrant to be executed by its officer thereunto duly authorized as of the date first above indicated.

COMERA LIFE SCIENCES HOLDINGS, INC.

By: _____

Name:

Title:

NOTICE OF EXERCISE

TO: COMERA LIFE SCIENCES HOLDINGS, INC.

(1) The undersigned hereby elects to purchase _____ Warrant Shares of the Company pursuant to the terms of the attached Warrant (only if exercised in full), and tenders herewith payment of the exercise price in full, together with all applicable transfer taxes, if any.

(2) Payment shall take the form of (check applicable box):

in lawful money of the United States; or

if permitted the cancellation of such number of Warrant Shares as is necessary, in accordance with the formula set forth in subsection 2(c), to exercise this Warrant with respect to the maximum number of Warrant Shares purchasable pursuant to the cashless exercise procedure set forth in subsection 2(c).

(3) Please issue said Warrant Shares in the name of the undersigned or in such other name as is specified below:

The Warrant Shares shall be delivered to the following DWAC Account Number:

(4) Accredited Investor. The undersigned is an “accredited investor” as defined in Regulation D promulgated under the Securities Act of 1933, as amended.

[SIGNATURE OF HOLDER]

Name of Investing Entity: _____

Signature of Authorized Signatory of Investing Entity: _____

Name of Authorized Signatory: _____

Title of Authorized Signatory: _____

Date: _____

EXHIBIT B

ASSIGNMENT FORM

(To assign the foregoing Warrant, execute this form and supply required information. Do not use this form to exercise the Warrant to purchase shares.)

FOR VALUE RECEIVED, the foregoing Warrant and all rights evidenced thereby are hereby assigned to

Name:

(Please Print)

Address:

(Please Print)

Phone Number:

Email Address:

Dated: _____, _____

Holder's Signature:

Holder's Address:

SECURITIES PURCHASE AGREEMENT

This Securities Purchase Agreement (this “Agreement”) is dated as of December 29, 2023, between Comera Life Sciences Holdings, Inc., a Delaware corporation (the “Company”), and each purchaser identified on the signature pages hereto (each, including its successors and permitted assigns, a “Purchaser” and collectively, the “Purchasers”).

WHEREAS, subject to the terms and conditions set forth in this Agreement and pursuant to Section 4(a)(2) of the Securities Act (as defined below), and Rule 506 promulgated thereunder, the Company desires to issue and sell to each Purchaser, and each Purchaser, severally and not jointly, desires to purchase from the Company, securities of the Company as more fully described in this Agreement.

NOW, THEREFORE, IN CONSIDERATION of the mutual covenants contained in this Agreement, and for other good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the Company and each Purchaser agree as follows:

**ARTICLE I.
DEFINITIONS**

1.1 Definitions. In addition to the terms defined elsewhere in this Agreement, for all purposes of this Agreement, the following terms have the meanings set forth in this Section 1.1:

“Acquiring Person” shall have the meaning ascribed to such term in Section 4.5.

“Action” shall have the meaning ascribed to such term in Section 3.1(j).

“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 under the Securities Act.

“Board of Directors” means the board of directors of the Company.

“Business Combination Agreement” means the business combination agreement, dated as of January 31, 2022, among the Company, OTR Acquisition Corp., CLS Sub Merger 1 Corp., CLS Sub Merger 2 Corp. and Comera Life Sciences, Inc., as amended.

“Business Day” means any day other than Saturday, Sunday or other day on which commercial banks in The City of New York are authorized or required by law to remain closed; provided, however, for clarification, commercial banks shall not be deemed to be authorized or required by law to remain closed due to “stay at home”, “shelter-in-place”, “non-essential employee” or any other similar orders or restrictions or the closure of any physical branch locations at the direction of any governmental authority so long as the electronic funds transfer systems (including for wire transfers) of commercial banks in The City of New York generally are open for use by customers on such day.

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

“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) the Purchasers’ obligations to pay the Subscription Amount and (ii) the Company’s obligations to deliver the Securities, in each case, have been satisfied or waived.

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

“Common Stock” means the common stock of the Company, par value \$0.0001 per share, and any other class of securities into which such securities may hereafter be reclassified or changed.

“Common Stock Equivalents” means any securities of the Company or the Subsidiaries which would entitle the holder thereof to acquire at any time Common Stock, including, without limitation, any debt, preferred stock, right, option, warrant 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.

“Disclosure Schedules” means the Disclosure Schedules of the Company delivered concurrently herewith.

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

“Exempt Issuance” means the issuance of (a) shares of Common Stock, restricted share units or options to employees, consultants, officers, or directors of the Company pursuant to any equity plan in existence as of the date hereof; (b) shares of Common Stock upon the exercise or exchange of or conversion of securities exercisable or exchangeable for or convertible into shares of Common Stock issued and outstanding on the date of this Agreement, provided that such securities have not been amended since the date of this Agreement to increase the number of such securities or to decrease the exercise price, exchange price or conversion price of such securities or to extend the term of such securities; (c) issuance of shares of Common Stock to consultants or vendors of the Company; provided that such securities are issued as “restricted securities” (as defined in Rule 144) and carry no registration rights; (d) securities issued pursuant to any licensing, collaboration or partnership arrangements or other strategic transactions with third parties approved by a majority of the disinterested directors of the Company, provided that any such issuance shall only be to a Person (or to the equityholders of a Person) which is, itself or through its subsidiaries or Affiliates, an operating company or an owner of an asset in a business synergistic with the business of the Company and shall provide to the Company additional benefits in addition to the investment of funds; (e) issuances of shares of Common Stock to existing holders of the Company’s securities in compliance with the terms of agreements entered into with, or instruments issued to, such holders prior to the date hereof, provided that such securities have not been amended, nor repriced, since the date of this Agreement to increase the number of such securities or to decrease the exercise price, exchange price or conversion price of such securities (other than in connection with

stock splits or combinations) or to extend the term of such securities; and (f) issuances of securities that represent Permitted Indebtedness as defined in the Notes or are otherwise permitted under the terms of the Notes.

“FCPA” means the Foreign Corrupt Practices Act of 1977, as amended.

“GAAP” shall have the meaning ascribed to such term in Section 3.1(h).

“Indebtedness” shall have the meaning ascribed to such term in Section 3.1(bb).

“Intellectual Property Rights” shall have the meaning ascribed to such term in Section 3.1(p).

“Legend Removal Date” shall have the meaning ascribed to such term in Section 4.1(c).

“Liens” means a lien, charge pledge, security interest, encumbrance, right of first refusal, preemptive right or other restriction.

“Material Adverse Effect” means (i) a material adverse effect on the legality, validity or enforceability of any Transaction Document, (ii) a material adverse effect on the results of operations, assets, business, prospects or condition (financial or otherwise) of the Company and the Subsidiaries, taken as a whole, or (iii) a material adverse effect on the Company’s ability to perform in any material respect on a timely basis its obligations under any Transaction Document or (iv) the Lien created by Section 13(b) of each Note shall at any time fail to constitute a valid and perfected Lien on all of the Collateral purported to be encumbered thereby, subject to no prior or equal Lien except Permitted Liens and other than solely as a result of any action or inaction of Holder or provided that such action or inaction is not caused by the Company’s failure to comply with the terms hereof, or the Company or any representative thereof shall so assert.

“Material Permits” shall have the meaning ascribed to such term in Section 3.1(n).

“Notes” means the 12.0% Senior Secured Convertible Notes, due December 29, 2024, delivered to the Purchasers at the Closing in accordance with Section 2.2(a) hereof, in the form of Exhibit A attached hereto.

“Note Shares” means the shares of Common Stock issuable upon conversion of the Notes.

“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.

“Proceeding” means an action, claim, suit, investigation or proceeding (including, without limitation, an informal investigation or partial proceeding, such as a deposition), whether commenced or threatened.

“Purchaser Party” shall have the meaning ascribed to such term in Section 4.8.

“Required Approvals” shall have the meaning ascribed to such term in Section 3.1(e).

“Rule 144” means Rule 144 promulgated by the Commission pursuant to the Securities Act, as such Rule may be amended or interpreted from time to time, or any similar rule or regulation hereafter adopted by the Commission having substantially the same purpose and effect as such Rule.

“Rule 424” means Rule 424 promulgated by the Commission pursuant to the Securities Act, as such Rule may be amended or interpreted from time to time, or any similar rule or regulation hereafter adopted by the Commission having substantially the same purpose and effect as such Rule.

“SEC Reports” shall have the meaning ascribed to such term in Section 3.1(h).

“Securities” means the Notes, the Note Shares, the Warrants and the Warrant Shares.

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

“Short Sales” means all “short sales” as defined in Rule 200 of Regulation SHO under the Exchange Act (but shall not be deemed to include locating and/or borrowing shares of Common Stock).

“Subscription Amount” means, as to each Purchaser, the aggregate principal amount of the Notes purchased hereunder as specified below such Purchaser’s name on the signature page of this Agreement and next to the heading “Note Principal Amount,” in United States dollars and in immediately available funds.

“Subsidiary” means any subsidiary of the Company and shall, where applicable, also include any direct or indirect subsidiary of the Company formed or acquired after the date hereof. As of the date of this Agreement, the Company’s subsidiaries (excluding dormant subsidiaries) are Comera Life Sciences, Inc., a Delaware corporation, and OTR Acquisition Corp., a Delaware corporation.

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

“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 OTCQB, 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 Agreement, the Notes, the Warrants, all exhibits and schedules thereto and hereto and any other documents or agreements executed in connection with the transactions contemplated hereunder.

“Transfer Agent” means Continental Stock Transfer & Trust Company, the current transfer agent of the Company, and any successor transfer agent of the Company.

“Warrants” means, collectively, the Common Stock purchase warrants delivered to the Purchasers at the Closing in accordance with Section 2.2(a) hereof, which Warrants shall be immediately exercisable and have a term of exercise equal to five years, in the form of Exhibit B attached hereto.

“Warrant Shares” means the shares of Common Stock issuable upon exercise of the Warrants.

ARTICLE II. PURCHASE AND SALE

2.1 Closing. On the Closing Date, which date shall be December 29, 2023, upon the terms and subject to the conditions set forth herein, the Company agrees to sell, and the Purchasers, severally and not jointly, agree to purchase, (a) up to \$1,500,000 aggregate principal amount of Notes and (b) Warrants to purchase up to an aggregate number of Warrant Shares equal to 200% of the number of Note Shares issuable upon conversion of the Notes immediately after the Closing. Each Purchaser shall deliver to the Company, via wire transfer or a certified check, immediately available funds equal to such Purchaser’s Subscription Amount as set forth on the signature page hereto executed by such Purchaser, and the Company shall deliver to each Purchaser its Note and Warrant, as determined pursuant to Section 2.2(a), and the Company and each Purchaser shall deliver the other items set forth in Section 2.2 deliverable at the Closing. Upon satisfaction of the covenants and conditions set forth in Sections 2.2 and 2.3, the Closing shall occur remotely via the electronic exchange of all closing deliverables, or as the parties shall otherwise mutually agree.

2.2 Deliveries.

(a) On or prior to the Closing Date, the Company shall deliver or cause to be delivered to each Purchaser the following:

(i) this Agreement duly executed by the Company;

(ii) a legal opinion of outside counsel to the Company, addressed to the Purchasers, in a form reasonably acceptable to the Purchasers;

(iii) a Note registered in the name of such Purchaser in the principal amount of such Purchaser’s Subscription Amount set forth on the signature page hereto executed by such Purchaser;

(iv) a Warrant registered in the name of such Purchaser to purchase up to a number of shares of Common Stock equal to 200% of the number of Note Shares that would be issuable upon conversion of such Purchaser’s Note as of immediately

following Closing (rounded down to the nearest whole share), with an exercise price equal to \$0.055, subject to adjustment as set forth therein; and

(v) the Company shall have provided each Purchaser with the Company's wire instructions, on Company letterhead and executed by the Chief Executive Officer or Chief Financial Officer.

(b) On or prior to the Closing Date, each Purchaser shall deliver or cause to be delivered to the Company, the following:

(i) this Agreement duly executed by such Purchaser; and

(ii) such Purchaser's Subscription Amount by wire transfer of immediately available funds to the account of the Company specified in writing by the Company.

2.3 Closing Conditions.

(a) The obligations of the Company hereunder in connection with the Closing are subject to the following conditions being met:

(i) the accuracy in all material respects (or, to the extent representations or warranties are qualified by materiality or Material Adverse Effect, in all respects) when made and on the Closing Date of the representations and warranties of the Purchasers contained herein (unless as of a specific date therein in which case they shall be accurate as of such date);

(ii) all obligations, covenants and agreements of each Purchaser required to be performed at or prior to the Closing Date shall have been performed; and

(iii) the delivery by each Purchaser of the items set forth in Section 2.2(b) of this Agreement.

(b) The respective obligations of the Purchasers hereunder in connection with the Closing are subject to the following conditions being met:

(i) the accuracy in all material respects (or, to the extent representations or warranties are qualified by materiality or Material Adverse Effect, in all respects) when made and on the Closing Date of the representations and warranties of the Company contained herein (unless as of a specific date therein in which case they shall be accurate as of such date);

(ii) all obligations, covenants and agreements of the Company required to be performed at or prior to the Closing Date shall have been performed;

(iii) the delivery by the Company of the items set forth in Section 2.2(a) of this Agreement;

(iv) there shall have been no Material Adverse Effect with respect to the Company since the date hereof; and

(v) from the date hereof to the Closing Date, trading in the Common Stock shall not have been suspended by the Commission or the Company's principal Trading Market, and, at any time prior to the Closing Date, trading in securities generally as reported by Bloomberg L.P. shall not have been suspended or limited, or minimum prices shall not have been established on securities whose trades are reported by such service, or on any Trading Market, nor shall a banking moratorium have been declared either by the United States or New York State authorities nor shall there have occurred any material outbreak or escalation of hostilities or other national or international calamity of such magnitude in its effect on, or any material adverse change in, any financial market which, in each case, in the reasonable judgment of such Purchaser, makes it impracticable or inadvisable to purchase the Securities at the Closing.

ARTICLE III. REPRESENTATIONS AND WARRANTIES

3.1 Representations and Warranties of the Company. Except as set forth in the SEC Reports and in the Disclosure Schedules, which Disclosure Schedules shall be deemed a part hereof and shall qualify any representation or otherwise made herein to the extent of the disclosure contained in the Disclosure Schedules, the Company hereby makes the following representations and warranties to each Purchaser:

(a) Subsidiaries. All of the direct and indirect subsidiaries of the Company are set forth in the definition of the term "Subsidiary" contained in this Agreement. The Company owns, directly or indirectly, all of the capital stock or other equity interests of each Subsidiary free and clear of any Liens, and all of the issued and outstanding shares of capital stock of each Subsidiary are validly issued and are fully paid, non-assessable and free of preemptive and similar rights to subscribe for or purchase securities. If the Company has no subsidiaries, all other references to the Subsidiaries or any of them in the Transaction Documents shall be disregarded.

(b) Organization and Qualification. The Company and each of the Subsidiaries is an entity duly incorporated or otherwise organized, validly existing and in good standing (if the concept of good standing exists in such jurisdiction) under the laws of the jurisdiction of its incorporation or organization, with the requisite power and authority to own and use its properties and assets and to carry on its business as currently conducted. Neither the Company nor any Subsidiary is in violation nor default of any of the provisions of its respective certificate or articles of incorporation, bylaws or other organizational or charter documents. Each of the Company and the Subsidiaries is duly qualified to conduct business and is in good standing as a foreign corporation or other entity in each jurisdiction in which the nature of the business conducted or property owned by it makes such qualification necessary, except where the failure to be so qualified or in good standing, as the case may be, would not have or reasonably be expected to result in a Material Adverse

Effect and no Proceeding has been instituted in any such jurisdiction revoking, limiting or curtailing or seeking to revoke, limit or curtail such power and authority or qualification.

(c) Authorization; Enforcement. The Company has the requisite corporate power and authority to enter into and to consummate the transactions contemplated by this Agreement and each of the other Transaction Documents and otherwise to carry out its obligations hereunder and thereunder. The execution and delivery of this Agreement and each of the other Transaction Documents by the Company and the consummation by it of the transactions contemplated hereby and thereby have been duly authorized by all necessary action on the part of the Company and no further action is required by the Company, the Board of Directors or the Company's stockholders in connection herewith or therewith other than in connection with the Required Approvals. This Agreement and each other Transaction Document to which it is a party has been (or upon delivery will have been) duly executed by the Company and, when delivered in accordance with the terms hereof and thereof, will constitute the valid and binding obligation of the Company enforceable against the Company in accordance with its terms, except (i) as limited by general equitable principles and applicable bankruptcy, insolvency, reorganization, moratorium and other laws of general application affecting enforcement of creditors' rights generally, (ii) as limited by laws relating to the availability of specific performance, injunctive relief or other equitable remedies and (iii) insofar as indemnification and contribution provisions may be limited by applicable law.

(d) No Conflicts. Except as set forth in Section 3.1(d) of the Disclosure Schedules, the execution, delivery and performance by the Company of this Agreement and the other Transaction Documents to which it is a party, the issuance and sale of the Securities and the consummation by it of the transactions contemplated hereby and thereby do not and will not (i) conflict with or violate any provision of the Company's or any Subsidiary's respective certificate or articles of incorporation, bylaws or other organizational or charter documents, or (ii) conflict with, or constitute a default (or an event that with notice or lapse of time or both would become a default) under, result in the creation of any Lien upon any of the properties or assets of the Company or any Subsidiary, or give to others any rights of termination, amendment, anti-dilution or similar adjustments, acceleration or cancellation (with or without notice, lapse of time or both) of, any agreement, credit facility, debt or other instrument (evidencing a Company or Subsidiary debt or otherwise) or other understanding to which the Company or any Subsidiary is a party or by which any property or asset of the Company or any Subsidiary is bound or affected (other than with respect to the Transaction Documents, including Liens created pursuant thereto), or (iii) subject to the Required Approvals, conflict with or result in a violation of any law, rule, regulation, order, judgment, injunction, decree or other restriction of any court or governmental authority to which the Company or a Subsidiary is subject (including federal and state securities laws and regulations), or by which any property or asset of the Company or a Subsidiary is bound or affected; except in the case of each of clauses (ii) and (iii), such as could not have or reasonably be expected to result in a Material Adverse Effect.

(e) Filings, Consents and Approvals. Except as described in the Certificate of Designation for the Company's Series A Convertible Perpetual Preferred Stock and as set

forth in Section 3.1(e) of the Disclosure Schedules, the Company is not required to obtain any consent, waiver, authorization or order of, give any notice to, or make any filing or registration with, any court or other federal, state, local or other governmental authority or other Person in connection with the execution, delivery and performance by the Company of the Transaction Documents, other than: (i) the filings required pursuant to Section 4.4 of this Agreement and (ii) the filing of Form D with the Commission and such filings as are required to be made under applicable state securities laws (collectively, the “Required Approvals”).

(f) Issuance of the Securities. The Notes and the Warrants are duly authorized and, at the Closing Date, will have been duly executed by the Company and, when issued and paid for in accordance with the applicable Transaction Documents, will constitute valid and binding obligations of the Company, enforceable against the Company in accordance with their respective terms, except (i) as limited by general equitable principles and applicable bankruptcy, insolvency, reorganization, moratorium and other laws of general application affecting enforcement of creditors’ rights generally, (ii) as limited by laws relating to the availability of specific performance, injunctive relief or other equitable remedies and (iii) insofar as indemnification and contribution provisions may be limited by applicable law, and will be free and clear of all Liens imposed by the Company other than restrictions on transfer provided for in the Transaction Documents and arising under applicable securities laws. The Note Shares and the Warrant Shares, when issued in accordance with the terms of this Agreement, the Notes and the Warrants, will be validly issued, fully paid and nonassessable, free and clear of all Liens imposed by the Company other than restrictions on transfer provided for in the Transaction Documents. The Company has reserved from its duly authorized capital stock 100% of the maximum number of shares of Common Stock issuable pursuant to the Notes and the Warrants.

(g) Capitalization. The capitalization of the Company as of the date hereof comprises 150,000,000 shares of Common Stock and 1,000,000 shares of preferred stock, par value \$0.0001 per share, of which 3,895.53 shares have been designated as Series A Convertible Perpetual Preferred Stock (“Series A Preferred Stock”) and 996,104.47 are undesignated shares of preferred stock. As of the date hereof, the Company has 30,737,796 shares of Common Stock outstanding, 3,150,000 of which are being held in escrow pursuant to the earn-out provision relating to the Business Combination Agreement (the “Earn-Out Shares”), and 3,895.53 shares of preferred stock outstanding, convertible into 310,153 shares of Common Stock. The Company has not issued any capital stock since its most recently filed periodic report under the Exchange Act, other than pursuant to the exercise of employee stock options under the Company’s stock option plans, the issuance of shares of Common Stock to employees pursuant to the Company’s employee stock purchase plans, pursuant to the conversion and/or exercise of Common Stock Equivalents outstanding as of the date of the most recently filed periodic report under the Exchange Act and pursuant to the terms of that certain Purchase Agreement dated as of August 31, 2022 by and between Arena Business Solutions Global SPC II, Ltd. and the Company. Except as set forth in Section 3.1(g) of the Disclosure Schedules, no Person has any right of first refusal, preemptive right, right of participation, or any similar right to participate in the transactions contemplated by the Transaction Documents. Except as a result of the purchase and sale of the Securities and as disclosed in the SEC Reports, there are no

outstanding options, warrants, scrip rights to subscribe to, calls or commitments of any character whatsoever relating to, or securities, rights or obligations convertible into or exercisable or exchangeable for, or giving any Person any right to subscribe for or acquire, any shares of Common Stock or the capital stock of any Subsidiary, or contracts, commitments, understandings or arrangements by which the Company or any Subsidiary is or may become bound to issue additional shares of Common Stock or Common Stock Equivalents or capital stock of any Subsidiary. The issuance and sale of the Securities will not obligate the Company or any Subsidiary to issue shares of Common Stock or other securities to any Person (other than the Purchasers). Except as disclosed in the SEC Reports, there are no outstanding securities or instruments of the Company or any Subsidiary with any provision that adjusts the exercise, conversion, exchange or reset price of such security or instrument upon an issuance of securities by the Company or any Subsidiary. Except for the outstanding shares of Series A Preferred Stock and outstanding warrants to purchase shares of Common Stock, there are no outstanding securities or instruments of the Company or any Subsidiary that contain any redemption or similar provisions, and there are no contracts, commitments, understandings or arrangements by which the Company or any Subsidiary is or may become bound to redeem a security of the Company or such Subsidiary. The issuance of the Notes and Warrants at the Closing will not give rise to any redemption or similar right to any holder of the Company's securities, except for the Series A Preferred Stock pursuant to the terms of such Series A Preferred Stock. The Company does not have any stock appreciation rights or "phantom stock" plans or agreements or any similar plan or agreement. All of the outstanding shares of capital stock of the Company are duly authorized, validly issued, fully paid and nonassessable, have been issued in compliance in all material respects with all federal and state securities laws, and none of such outstanding shares was issued in violation of any preemptive rights or similar rights to subscribe for or purchase securities. There are no stockholders agreements, voting agreements or other similar agreements with respect to the Company's capital stock to which the Company is a party or, to the knowledge of the Company, between or among any of the Company's stockholders.

(h) SEC Reports; Financial Statements. The Company has filed all reports, schedules, forms, statements and other documents required to be filed by the Company under the Securities Act and the Exchange Act, including pursuant to Section 13(a) or 15(d) thereof, for the two years immediately preceding the date hereof (or such shorter period as the Company was required by law or regulation to file such material) (the foregoing materials, including the exhibits thereto and documents incorporated by reference therein, being collectively referred to herein as the "SEC Reports"). As of their respective dates (or, with respect to any filing that has been amended or superseded, the date of such amendment or superseding filing), the SEC Reports complied in all material respects with the requirements of the Securities Act and the Exchange Act, as applicable, and none of the SEC Reports, when filed, contained any untrue statement of a material fact or omitted to state a material fact required to be stated therein or necessary in order to make the statements therein, in the light of the circumstances under which they were made, not misleading. As of their respective dates (or, with respect to any filing that has been amended or superseded, the date of such amendment or superseding filing), the financial statements of the Company included in the SEC Reports comply in all material respects with applicable accounting requirements and the rules and regulations of the Commission

with respect thereto as in effect at the time of filing. Such financial statements have been prepared in accordance with United States generally accepted accounting principles applied on a consistent basis during the periods involved (“GAAP”), except as may be otherwise specified in such financial statements or the notes thereto and except that unaudited financial statements may not contain all footnotes required by GAAP, and fairly present in all material respects the financial position of the Company and its consolidated Subsidiaries as of and for the dates thereof and the results of operations and cash flows for the periods then ended, subject, in the case of unaudited statements, to normal, immaterial, year-end audit adjustments.

(i) Material Changes; Undisclosed Events, Liabilities or Developments. Since the date of the latest audited financial statements included within the SEC Reports, except as disclosed in a subsequent SEC Report filed or furnished prior to the date hereof, (i) there has been no event, occurrence or development that has had or that could reasonably be expected to result in a Material Adverse Effect, (ii) the Company has not incurred any liabilities (contingent or otherwise) other than (A) trade payables and accrued expenses incurred in the ordinary course of business consistent with past practice and (B) liabilities not required to be reflected in the Company’s financial statements pursuant to GAAP or disclosed in filings made with the Commission, (iii) the Company has not altered its method of accounting, (iv) the Company has not declared or made any dividend or distribution of cash or other property to its stockholders or purchased, redeemed or made any agreements to purchase or redeem any shares of its capital stock and (v) the Company has not issued any equity securities to any officer, director or Affiliate, except pursuant to existing Company stock option plans and as may be issued and sold pursuant to this Agreement. The Company does not have pending before the Commission any request for confidential treatment of information. Except for the issuance of the Securities contemplated by this Agreement, no event, liability, fact, circumstance, occurrence or development has occurred or exists or is reasonably expected to occur or exist with respect to the Company or its Subsidiaries or their respective businesses, prospects, properties, operations, assets or financial condition that would be required to be disclosed by the Company under applicable securities laws at the time this representation is made or deemed made that has not been publicly disclosed at least one Trading Day prior to the date that this representation is made.

(j) Litigation. Except as disclosed in the SEC Reports, there is no action, suit, inquiry, notice of violation, proceeding or investigation pending or, to the knowledge of the Company, threatened against or affecting the Company, any Subsidiary or any of their respective properties before or by any court, arbitrator, governmental or administrative agency or regulatory authority (federal, state, county, local or foreign) (collectively, an “Action”), which (i) adversely affects or challenges the legality, validity or enforceability of any of the Transaction Documents or the Securities or (ii) could, if there were an unfavorable decision, have or reasonably be expected to result in a Material Adverse Effect. Neither the Company nor any Subsidiary, nor any director or officer thereof, is or has been the subject of any Action involving a claim of violation of or liability under federal or state securities laws or a claim of breach of fiduciary duty, which would, if there were an unfavorable decision, have or reasonably be expected to result in a Material Adverse Effect. There has not been, and to the knowledge of the Company, there is not pending or

contemplated, any investigation by the Commission involving the Company or any current or former director or officer of the Company. The Commission has not issued any stop order or other order suspending the effectiveness of any registration statement filed by the Company or any Subsidiary under the Exchange Act or the Securities Act.

(k) Labor Relations. No labor dispute exists or, to the knowledge of the Company, is imminent with respect to any of the employees of the Company, which could reasonably be expected to result in a Material Adverse Effect. None of the Company's or its Subsidiaries' employees is a member of a union that relates to such employee's relationship with the Company or such Subsidiary, and neither the Company nor any of its Subsidiaries is a party to a collective bargaining agreement, and the Company and its Subsidiaries believe that their relationships with their employees are good. To the knowledge of the Company, no executive officer of the Company or any Subsidiary is, or is now expected to be, in violation of any material term of any employment contract, confidentiality, disclosure or proprietary information agreement or non-competition agreement, or any other contract or agreement or any restrictive covenant in favor of any third party, and the continued employment of each such executive officer does not subject the Company or any of its Subsidiaries to any liability with respect to any of the foregoing matters. The Company and its Subsidiaries are in compliance with all U.S. federal, state, local and foreign laws and regulations relating to employment and employment practices, terms and conditions of employment and wages and hours, except where the failure to be in compliance could not, individually or in the aggregate, reasonably be expected to have a Material Adverse Effect.

(l) Compliance. Neither the Company nor any Subsidiary: (i) is in default under or in violation of (and no event has occurred that has not been waived that, with notice or lapse of time or both, would result in a default by the Company or any Subsidiary under), nor has the Company or any Subsidiary received notice of a claim that it is in default under or that it is in violation of, any indenture, loan or credit agreement or any other agreement or instrument to which it is a party or by which it or any of its properties is bound (whether or not such default or violation has been waived), (ii) is in violation of any judgment, decree, or order of any court, arbitrator or other governmental authority or (iii) is in violation of any statute, rule, ordinance or regulation of any governmental authority, including without limitation all foreign, federal, state and local laws relating to taxes, environmental protection, occupational health and safety, product quality and safety and employment and labor matters, except in each case as could not have or reasonably be expected to result in a Material Adverse Effect.

(m) Environmental Laws. The Company and its Subsidiaries (i) are in compliance with all federal, state, local and foreign laws relating to pollution or protection of human health or the environment (including ambient air, surface water, groundwater, land surface or subsurface strata), including laws relating to emissions, discharges, releases or threatened releases of chemicals, pollutants, contaminants, or toxic or hazardous substances or wastes (collectively, "Hazardous Materials") into the environment, or otherwise relating to the manufacture, processing, distribution, use, treatment, storage, disposal, transport or handling of Hazardous Materials, as well as all authorizations, codes, decrees, demands, or demand letters, injunctions, judgments, licenses, notices or notice

letters, orders, permits, plans or regulations, issued, entered, promulgated or approved thereunder (“Environmental Laws”); (ii) have received all permits licenses or other approvals required of them under applicable Environmental Laws to conduct their respective businesses; and (iii) are in compliance with all terms and conditions of any such permit, license or approval where in each clause (i), (ii) and (iii), the failure to so comply could be reasonably expected to have, individually or in the aggregate, a Material Adverse Effect.

(n) Regulatory Permits. The Company and the Subsidiaries possess all certificates, authorizations and permits issued by the appropriate federal, state, local or foreign regulatory authorities necessary to conduct their respective businesses as described in the SEC Reports, except where the failure to possess such permits could not reasonably be expected to result in a Material Adverse Effect (“Material Permits”), and neither the Company nor any Subsidiary has received any notice of proceedings relating to the revocation or modification of any Material Permit.

(o) Title to Assets. The Company and the Subsidiaries have good and marketable title in fee simple to or have valid rights to lease or otherwise use all real property that is described in the SEC Reports and have good and marketable title in or valid rights to lease or otherwise use all personal property owned by them that is material to the business of the Company and the Subsidiaries, in each case free and clear of all Liens, except for (i) Liens as do not materially affect the value of such property and do not materially interfere with the use made and proposed to be made of such property by the Company and the Subsidiaries, and (ii) Liens for the payment of federal, state or other taxes, for which appropriate reserves have been made therefor in accordance with GAAP and the payment of which is neither delinquent nor subject to penalties. Any real property and facilities held under lease by the Company and the Subsidiaries are held by them under valid, subsisting and enforceable leases with which the Company and the Subsidiaries are in material compliance.

(p) Intellectual Property. The Company and the Subsidiaries have, or have rights to use, all patents, patent applications, trademarks, trademark applications, service marks, trade names, trade secrets, inventions, copyrights, licenses and other intellectual property rights and similar rights necessary or required for use in connection with their respective businesses as described in the SEC Reports and which the failure to so have could have a Material Adverse Effect (collectively, the “Intellectual Property Rights”). None of, and neither the Company nor any Subsidiary has received a notice (written or otherwise) that any of, the Intellectual Property Rights has expired, terminated or been abandoned, or is expected to expire or terminate or be abandoned, within two years from the date of this Agreement, except where the failure to possess such right would not reasonably be expected to have a Material Adverse Effect. Neither the Company nor any Subsidiary has received, since the date of the latest audited financial statements included within the SEC Reports, a written notice of a claim or otherwise has any knowledge that the Intellectual Property Rights violate or infringe upon the rights of any Person, except as could not have or reasonably be expected to not have a Material Adverse Effect. To the knowledge of the Company, all such Intellectual Property Rights are enforceable and there is no existing infringement by another Person of any of the Intellectual Property Rights. The Company

and its Subsidiaries have taken reasonable security measures to protect the secrecy, confidentiality and value of all of their intellectual properties, except where failure to do so could not, individually or in the aggregate, reasonably be expected to have a Material Adverse Effect.

(q) Insurance. The Company and the Subsidiaries are insured by insurers of recognized financial responsibility against such losses and risks and in such amounts as management of the Company believes to be prudent and customary in the businesses in which the Company and the Subsidiaries are engaged, including, but not limited to, directors and officers insurance coverage at least equal to the aggregate Subscription Amount. Neither the Company nor any Subsidiary has any reason to believe that it will not be able to renew its existing insurance coverage as and when such coverage expires or to obtain similar coverage from similar insurers as may be necessary to continue its business at a cost that would not have a Material Adverse Effect.

(r) Transactions with Affiliates and Employees. Except as disclosed in the SEC Reports and as contemplated by the Transaction Documents, none of the officers or directors of the Company or any Subsidiary and, to the knowledge of the Company, none of the employees of the Company or any Subsidiary is presently a party to any transaction with the Company or any Subsidiary (other than for services as employees, officers and directors), including any contract, agreement or other arrangement providing for the furnishing of services to or by, providing for rental of real or personal property to or from, providing for the borrowing of money from or lending of money to or otherwise requiring payments to or from any officer, director or such employee or, to the knowledge of the Company, any entity in which any officer, director, or any such employee has a substantial interest or is an officer, director, trustee, stockholder, member or partner, in each case in excess of \$120,000 other than for (i) payment of salary or consulting fees for services rendered, (ii) reimbursement for expenses incurred on behalf of the Company and (iii) other employee benefits, including stock option agreements under any stock option plan of the Company.

(s) Sarbanes-Oxley; Internal Accounting Controls. The Company and the Subsidiaries are in compliance in all material respects with all applicable requirements of the Sarbanes-Oxley Act of 2002 that are effective as of the date hereof, and all applicable rules and regulations promulgated by the Commission thereunder that are effective as of the date hereof and as of the Closing Date. The Company and the Subsidiaries maintain a system of internal accounting controls sufficient to provide reasonable assurance that: (i) transactions are executed in accordance with management's general or specific authorizations, (ii) transactions are recorded as necessary to permit preparation of financial statements in conformity with GAAP and to maintain asset accountability, (iii) access to assets is permitted only in accordance with management's general or specific authorization, and (iv) the recorded accountability for assets is compared with the existing assets at reasonable intervals and appropriate action is taken with respect to any differences. The Company and the Subsidiaries have established disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) for the Company and the Subsidiaries and designed such disclosure controls and procedures to ensure that information required to be disclosed by the Company in the reports it files or submits under

the Exchange Act is recorded, processed, summarized and reported, within the time periods specified in the Commission's rules and forms. The Company's certifying officers have evaluated the effectiveness of the disclosure controls and procedures of the Company and the Subsidiaries as of the end of the period covered by the most recently filed periodic report under the Exchange Act (such date, the "Evaluation Date"). The Company presented in its most recently filed periodic report under the Exchange Act the conclusions of the certifying officers about the effectiveness of the disclosure controls and procedures based on their evaluations as of the Evaluation Date. Since the Evaluation Date, there have been no changes in the internal control over financial reporting (as such term is defined in the Exchange Act) of the Company and its Subsidiaries that have materially affected, or are reasonably likely to materially affect, the internal control over financial reporting of the Company and its Subsidiaries.

(t) [Reserved].

(u) Private Placement. Assuming the accuracy of the Purchasers' representations and warranties set forth in Section 3.2, no registration under the Securities Act is required for the offer and sale of the Securities by the Company to the Purchasers as contemplated hereby. The issuance and sale of the Securities hereunder do not contravene the rules and regulations of the Trading Market.

(v) Investment Company. The Company is not required to be registered as, and, immediately after receipt of payment for the Securities, will not be required to be registered as, an "investment company" within the meaning of the Investment Company Act of 1940, as amended. The Company shall conduct its business in a manner so that it will not become required to be registered as an "investment company" subject to registration under the Investment Company Act of 1940, as amended.

(w) Registration Rights. Except as disclosed in the SEC Reports, no Person has any right to cause the Company or any Subsidiary to effect the registration under the Securities Act of any securities of the Company or any Subsidiary.

(x) Listing and Maintenance Requirements. The Common Stock is registered pursuant to Section 12(b) or 12(g) of the Exchange Act, and the Company has taken no action designed to, or which to its knowledge is likely to have the effect of, terminating the registration of the Common Stock under the Exchange Act nor has the Company received any notification that the Commission is contemplating terminating such registration. Except as disclosed in the SEC Reports, the Company has not, in the 12 months preceding the date hereof, received notice from any Trading Market on which the Common Stock is or has been listed or quoted to the effect that the Company is not in compliance with the listing or maintenance requirements of such Trading Market. The Common Stock is currently eligible for electronic transfer through the Depository Trust Company or another established clearing corporation and the Company is current in payment of the fees to the Depository Trust Company (or such other established clearing corporation) in connection with such electronic transfer.

(y) Application of Takeover Protections. The Company and the Board of Directors have taken all necessary action, if any, in order to render inapplicable any control share acquisition, business combination, poison pill (including any distribution under a rights agreement) or other similar anti-takeover provision under the Company's certificate of incorporation (or similar charter documents) or the laws of its state of incorporation that is or could become applicable to the Purchasers as a result of the Purchasers and the Company fulfilling their obligations or exercising their rights under the Transaction Documents, including without limitation as a result of the Company's issuance of the Securities and the Purchasers' ownership of the Securities.

(z) Disclosure. All of the written disclosure furnished by or on behalf of the Company to the Purchasers pursuant to this Agreement regarding the Company and its Subsidiaries, their respective businesses and the transactions contemplated hereby, including the Disclosure Schedules to this Agreement, is true and correct and does not contain any untrue statement of a material fact or omit to state any material fact necessary in order to make the statements made therein, in the light of the circumstances under which they were made, not misleading. The Company acknowledges and agrees that no Purchaser makes or has made any representations or warranties with respect to the transactions contemplated hereby other than those specifically set forth in Section 3.2 hereof.

(aa) No Integrated Offering. Assuming the accuracy of the Purchasers' representations and warranties set forth in Section 3.2, neither the Company, nor any of its Affiliates, nor any Person acting on its or their behalf has, directly or indirectly, made any offers or sales of any security or solicited any offers to buy any security, under circumstances that would cause this offering of the Securities to be integrated with prior offerings by the Company for purposes of (i) the Securities Act which would require the registration of any such securities under the Securities Act, or (ii) any applicable shareholder approval provisions of any Trading Market on which any of the securities of the Company are listed or designated.

(bb) Solvency. Based on the consolidated financial condition of the Company as of the Closing Date, after giving effect to the receipt by the Company of the proceeds from the sale of the Securities hereunder, (i) the fair saleable value of the Company's assets exceeds the amount that will be required to be paid on or in respect of the Company's existing debts and other liabilities (including known contingent liabilities) as they mature and (ii) the current cash flow of the Company, together with the proceeds the Company would receive, were it to liquidate all of its assets, after taking into account all anticipated uses of the cash, would be sufficient to pay all amounts on or in respect of its liabilities when such amounts are required to be paid. The Company does not intend to incur debts beyond its ability to pay such debts as they mature (taking into account the timing and amounts of cash to be payable on or in respect of its debt). The SEC Reports and Section 3.1(bb) of the Disclosure Schedules set forth as of the date hereof all outstanding secured and unsecured Indebtedness of the Company or any Subsidiary, or for which the Company or any Subsidiary has commitments. For the purposes of this Agreement, "Indebtedness" means (x) any liabilities for borrowed money or amounts owed in excess of \$100,000 (other than trade accounts payable incurred in the ordinary course of business), (y) all guaranties, endorsements and other contingent obligations in respect of indebtedness of others,

whether or not the same are or should be reflected in the Company's consolidated balance sheet (or the notes thereto), except guaranties by endorsement of negotiable instruments for deposit or collection or similar transactions in the ordinary course of business; and (z) the present value of any lease payments in excess of \$100,000 due under leases required to be capitalized in accordance with GAAP. Neither the Company nor any Subsidiary is in default with respect to any Indebtedness.

(cc) Tax Status. Except for matters that would not, individually or in the aggregate, have or reasonably be expected to result in a Material Adverse Effect, the Company and its Subsidiaries each (i) has made or filed all United States federal, state and local income and all foreign income and franchise tax returns, reports and declarations required by any jurisdiction to which it is subject, (ii) has paid all taxes and other governmental assessments and charges that are material in amount, shown or determined to be due on such returns, reports and declarations, except for taxes, if any, as are being contested in good faith and as to which adequate reserves have been established by the Company and (iii) has set aside on its books provision reasonably adequate for the payment of all material taxes for periods subsequent to the periods to which such returns, reports or declarations apply. There are no unpaid taxes in any material amount claimed to be due by the taxing authority of any jurisdiction, and the officers of the Company or of any Subsidiary know of no basis for any such claim.

(dd) No General Solicitation. Neither the Company nor any Person acting on behalf of the Company has offered or sold any of the Securities by any form of general solicitation or general advertising. The Company has offered the Securities for sale only to the Purchasers and certain other "accredited investors" within the meaning of Rule 501 under the Securities Act.

(ee) Foreign Corrupt Practices. Neither the Company nor any Subsidiary, nor to the knowledge of the Company or any Subsidiary, any agent or other person acting on behalf of the Company or any Subsidiary, has (i) directly or indirectly, used any funds for unlawful contributions, gifts, entertainment or other unlawful expenses related to foreign or domestic political activity, (ii) made any unlawful payment to foreign or domestic government officials or employees or to any foreign or domestic political parties or campaigns from corporate funds, (iii) failed to disclose fully any contribution made by the Company or any Subsidiary (or made by any person acting on its behalf of which the Company is aware) which is in violation of law or (iv) violated in any material respect any provision of FCPA.

(ff) Accountants. The Company's accounting firm is Baker Tilly US, LLP. To the knowledge and belief of the Company, such accounting firm (i) is a registered public accounting firm as required by the Exchange Act and (ii) shall express its opinion with respect to the financial statements to be included in the Company's Annual Report for the fiscal year ended December 31, 2023.

(gg) No Disagreements with Accountants and Lawyers. There are no material disagreements of any kind presently existing, or reasonably anticipated by the Company to arise, between the Company and the accountants and lawyers formerly or presently

employed by the Company, which would reasonably be expected to affect the Company's ability to perform any of its obligations under any of the Transaction Documents.

(hh) Acknowledgment Regarding Purchasers' Purchase of Securities. The Company acknowledges and agrees that each of the Purchasers is acting solely in the capacity of an arm's length purchaser with respect to the Transaction Documents and the transactions contemplated thereby. The Company further acknowledges that no Purchaser is acting as a financial advisor or fiduciary of the Company (or in any similar capacity) with respect to the Transaction Documents and the transactions contemplated thereby and any advice given by any Purchaser or any of their respective representatives or agents in connection with the Transaction Documents and the transactions contemplated thereby is merely incidental to the Purchasers' purchase of the Securities. The Company further represents to each Purchaser that the Company's decision to enter into this Agreement and the other Transaction Documents has been based solely on the independent evaluation of the transactions contemplated hereby by the Company and its representatives.

(ii) Regulation M Compliance. The Company has not, and to its knowledge no one acting on its behalf has, (i) taken, directly or indirectly, any action designed to cause or to result in the stabilization or manipulation of the price of any security of the Company to facilitate the sale or resale of any of the Securities, (ii) sold, bid for, purchased, or paid any compensation for soliciting purchases of, any of the Securities, or (iii) paid or agreed to pay to any Person any compensation for soliciting another to purchase any other securities of the Company.

(jj) Stock Option Plans. Each stock option granted by the Company under the Company's stock option plan was granted (i) in accordance with the terms of the Company's stock option plan and (ii) with an exercise price at least equal to the fair market value of the Common Stock on the date such stock option would be considered granted under GAAP and applicable law. No stock option granted under the Company's stock option plan has been backdated. The Company has not knowingly granted, and there is no and has been no Company policy or practice to knowingly grant, stock options prior to, or otherwise knowingly coordinate the grant of stock options with, the release or other public announcement of material information regarding the Company or its Subsidiaries or their financial results or prospects.

(kk) Cybersecurity. Except as disclosed in the SEC Reports, (i)(x) to the Company's knowledge, there has been no security breach or other compromise of or relating to any of the Company's or any Subsidiary's information technology and computer systems, networks, hardware, software, data (including the data of their respective customers, employees, suppliers, vendors and any third party data maintained by or on behalf of it), equipment or technology (collectively, "IT Systems and Data") and (y) the Company and the Subsidiaries have not been notified of, and have no knowledge of any event or condition that would reasonably be expected to result in, any security breach or other compromise to its IT Systems and Data; (ii) the Company and the Subsidiaries are presently in compliance with all applicable laws or statutes and all judgments, orders, rules and regulations of any court or arbitrator or governmental or regulatory authority, internal policies and contractual obligations relating to the privacy and security of IT Systems and

Data and to the protection of such IT Systems and Data from unauthorized use, access, misappropriation or modification, except as would not, individually or in the aggregate, have a Material Adverse Effect; (iii) the Company and the Subsidiaries have implemented and maintained commercially reasonable safeguards to maintain and protect its material confidential information and the integrity, continuous operation, redundancy and security of all IT Systems and Data; and (iv) the Company and the Subsidiaries have implemented backup and disaster recovery technology consistent with customary industry standards and practices.

(ll) Office of Foreign Assets Control. Neither the Company nor any Subsidiary nor, to the Company's knowledge, any director, officer, agent, employee or affiliate of the Company or any Subsidiary is currently subject to any U.S. sanctions administered by the Office of Foreign Assets Control of the U.S. Treasury Department ("OFAC").

(mm) U.S. Real Property Holding Corporation. The Company is not and has never been a U.S. real property holding corporation within the meaning of Section 897 of the Internal Revenue Code of 1986, as amended.

(nn) Bank Holding Company Act. Neither the Company nor any of its Subsidiaries or Affiliates is subject to the Bank Holding Company Act of 1956, as amended (the "BHCA") and to regulation by the Board of Governors of the Federal Reserve System (the "Federal Reserve"). Neither the Company nor any of its Subsidiaries or Affiliates owns or controls, directly or indirectly, five percent or more of the outstanding shares of any class of voting securities or 25% or more of the total equity of a bank or any entity that is subject to the BHCA and to regulation by the Federal Reserve. Neither the Company nor any of its Subsidiaries or Affiliates exercises a controlling influence over the management or policies of a bank or any entity that is subject to the BHCA and to regulation by the Federal Reserve.

(oo) Money Laundering. The operations of the Company and its Subsidiaries are and have been conducted at all times in compliance with applicable financial record-keeping and reporting requirements of the Currency and Foreign Transactions Reporting Act of 1970, as amended, applicable money laundering statutes and applicable rules and regulations thereunder (collectively, the "Money Laundering Laws"), and no Action or Proceeding by or before any court or governmental agency, authority or body or any arbitrator involving the Company or any Subsidiary with respect to the Money Laundering Laws is pending or, to the knowledge of the Company or any Subsidiary, threatened.

(pp) No Disqualification Events. With respect to the Securities to be offered and sold hereunder in reliance on Rule 506 under the Securities Act, none of the Company, any of its predecessors, any affiliated issuer, any director, executive officer, other officer of the Company participating in the offering hereunder, any beneficial owner of 20% or more of the Company's outstanding voting equity securities, calculated on the basis of voting power, nor any promoter (as that term is defined in Rule 405 under the Securities Act) connected with the Company in any capacity at the time of sale (each, an "Issuer Covered Person" and, together, "Issuer Covered Persons") is subject to any of the "Bad Actor" disqualifications described in Rule 506(d)(1)(i) to (viii) under the Securities Act (a

“Disqualification Event”), except for a Disqualification Event covered by Rule 506(d)(2) or (d)(3). The Company has exercised reasonable care to determine whether any Issuer Covered Person is subject to a Disqualification Event. The Company has complied, to the extent applicable, with its disclosure obligations under Rule 506(e), and has furnished to the Purchasers a copy of any disclosures provided thereunder.

(qq) Other Covered Persons. The Company is not aware of any person (other than any Issuer Covered Person) that has been or will be paid (directly or indirectly) remuneration for solicitation of purchasers in connection with the sale of any Securities.

(rr) Notice of Disqualification Events. The Company will notify the Purchasers in writing, prior to the Closing Date of (i) any Disqualification Event relating to any Issuer Covered Person and (ii) any event that would, with the passage of time, become a Disqualification Event relating to any Issuer Covered Person.

3.2Representations and Warranties of the Purchasers. Each Purchaser, for itself and for no other Purchaser, hereby represents and warrants as of the date hereof and as of the Closing Date to the Company as follows (unless as of a specific date therein, in which case they shall be accurate as of such date):

(a) Organization; Authority. Such Purchaser is either an individual or an entity duly incorporated or formed, validly existing and in good standing under the laws of the jurisdiction of its incorporation or formation with full right, corporate, partnership, limited liability company or similar power and authority to enter into and to consummate the transactions contemplated by the Transaction Documents and otherwise to carry out its obligations hereunder and thereunder. The execution and delivery of the Transaction Documents and performance by such Purchaser of the transactions contemplated by the Transaction Documents have been duly authorized by all necessary corporate, partnership, limited liability company or similar action, as applicable, on the part of such Purchaser. Each Transaction Document to which it is a party has been duly executed by such Purchaser, and when delivered by such Purchaser in accordance with the terms hereof, will constitute the valid and legally binding obligation of such Purchaser, enforceable against it in accordance with its terms, except (i) as limited by general equitable principles and applicable bankruptcy, insolvency, reorganization, moratorium and other laws of general application affecting enforcement of creditors' rights generally, (ii) as limited by laws relating to the availability of specific performance, injunctive relief or other equitable remedies and (iii) insofar as indemnification and contribution provisions may be limited by applicable law.

(b) Own Account. Such Purchaser understands that the Securities are “restricted securities” and have not been registered under the Securities Act or any applicable state securities law and is acquiring the Securities as principal for its own account and not with a view to or for distributing or reselling such Securities or any part thereof in violation of the Securities Act or any applicable state securities law, has no present intention of distributing any of such Securities in violation of the Securities Act or any applicable state securities law and has no direct or indirect arrangement or understandings with any other persons to distribute or regarding the distribution of such Securities in violation of the

Securities Act or any applicable state securities law (this representation and warranty not limiting such Purchaser's right to sell the Securities pursuant to the Registration Statement or otherwise in compliance with applicable federal and state securities laws). Such Purchaser is acquiring the Securities hereunder in the ordinary course of its business.

(c) Purchaser Status. At the time such Purchaser was offered the Securities, it was, and as of the date hereof it is, and on each date on which it either converts any of the Notes into Note Shares or exercises any Warrants, it will be either: (i) an "accredited investor" as defined in Rule 501(a) under the Securities Act or (ii) a "qualified institutional buyer" as defined in Rule 144A under the Securities Act.

(d) Experience of Such Purchaser. Such 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 Securities, and has so evaluated the merits and risks of such investment. Such Purchaser is able to bear the economic risk of an investment in the Securities and, at the present time, is able to afford a complete loss of such investment.

(e) General Solicitation. Such Purchaser is not purchasing the Securities as a result of any advertisement, article, notice or other communication regarding the Securities published in any newspaper, magazine or similar media or broadcast over television or radio or presented at any seminar or any other general solicitation or general advertisement.

(f) Access to Information. Such 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 Securities and the merits and risks of investing in the Securities; (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.

(g) Certain Transactions and Confidentiality. Other than consummating the transactions contemplated hereunder, such Purchaser has not, nor has any Person acting on behalf of or pursuant to any understanding with such Purchaser, directly or indirectly executed any purchases or sales, including Short Sales, of the securities of the Company during the period commencing as of the time that such 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. Notwithstanding the foregoing, in the case of any Purchaser that is a multi-managed investment vehicle whereby separate portfolio managers manage separate portions of such Purchaser's assets and the portfolio managers have no direct knowledge of the investment decisions made by the portfolio managers managing other portions of such Purchaser's assets, the representation set forth above shall

only apply with respect to the portion of assets managed by the portfolio manager that made the investment decision to purchase the Securities covered by this Agreement. Other than to other Persons party to this Agreement or to such Purchaser's representatives, including, without limitation, its officers, directors, partners, legal and other advisors, employees, agents and Affiliates, such Purchaser has maintained the confidentiality of all disclosures made to it in connection with this transaction (including the existence and terms of this transaction). Notwithstanding the foregoing, and subject to Section 3.2(h), for the avoidance of doubt, nothing contained herein shall constitute a representation or warranty, or preclude any actions, with respect to locating or borrowing shares in order to effect Short Sales or similar transactions in the future.

(h) Short Sales. Each Purchaser represents and warrants to the Company that such Purchaser shall not engage in or effect, in any manner whatsoever, directly or indirectly, any (i) "short sale" (as such term is defined in Rule 200 of Regulation SHO of the 1934 Act (as defined herein)) of the Common Stock or (ii) hedging transaction, which establishes a net short position with respect to the Common Stock.

(i) No Governmental Review. Such Purchaser understands that no United States federal or state agency or any other government or governmental agency has passed on or made any recommendation or endorsement of the Securities or the fairness or suitability of the investment in the Securities nor have such authorities passed upon or endorsed the merits of the offering of the Securities.

(j) No Conflicts. The execution, delivery and performance by such Purchaser of this Agreement, the Transaction Documents and the consummation by such Purchaser of the transactions contemplated thereby will not (i) result in a violation of the organizational documents of such Purchaser or (ii) conflict with, or constitute a default (or an event which with notice or lapse of time or both would become a default) under, or give to others any rights of termination, amendment, acceleration or cancellation of, any agreement, indenture or instrument to which such Purchaser is a party, or (iii) result in a violation of any law, rule, regulation, order, judgment or decree (including federal and state securities laws) applicable to such Purchaser, except in the case of clauses (ii) and (iii) above, for such conflicts, defaults, rights or violations which would not, individually or in the aggregate, reasonably be expected to have a material adverse effect on the ability of such Purchaser to consummate the transactions contemplated hereby.

(k) Restricted Securities. Such Purchaser understands that the Securities are characterized as "restricted securities" under the U.S. federal securities laws because they are being acquired from the Company in a transaction not involving a public offering and that under such laws and applicable regulations such securities may be resold without registration under the Securities Act only in certain limited circumstances.

(l) Legends. It is understood that, except as provided in Section 4.1 of this Agreement, certificates evidencing such Securities may bear the legend set forth in Section 4.1(b) until such time as the same is no longer required under applicable requirements of the Securities Act or applicable state securities laws, or is otherwise removed in accordance with Section 4.1(c) herein.

(m) No Legal, Tax or Investment Advice. Such Purchaser understands that nothing in this Agreement or any other materials presented by or on behalf of the Company to the Purchaser in connection with the purchase of the Securities constitutes legal, tax or investment advice. Such Purchaser has consulted such legal, tax and investment advisors as it, in its sole discretion, has deemed necessary or appropriate in connection with its purchase of the Securities.

The Company acknowledges and agrees that the representations contained in this Section 3.2 shall not modify, amend or affect such Purchaser's right to rely on the Company's representations and warranties contained in this Agreement or any representations and warranties contained in any other Transaction Document. Notwithstanding the foregoing, and subject to Section 3.2(h), for the avoidance of doubt, nothing contained herein shall constitute a representation or warranty, or preclude any actions, with respect to locating or borrowing shares in order to effect Short Sales or similar transactions in the future.

ARTICLE IV. OTHER AGREEMENTS OF THE PARTIES

4.1 Transfer Restrictions.

(a) The Securities may only be disposed of in compliance with state and federal securities laws. In connection with any transfer of Securities other than pursuant to an effective registration statement, to the Company or to an Affiliate of a Purchaser or in connection with a pledge as contemplated in Section 4.1(b), the Company may require the transferor thereof to provide to the Company an opinion of counsel selected by the transferor and reasonably acceptable to the Company, the form and substance of which opinion shall be reasonably satisfactory to the Company, to the effect that such transfer does not require registration of such transferred Securities under the Securities Act. As a condition of transfer, any such transferee shall agree in writing to be bound by the terms of this Agreement and shall have the rights and obligations of a Purchaser under this Agreement.

(b) The Purchasers agree to the imprinting, so long as is required by this Section 4.1, of a legend on any of the Securities in substantially the following form:

[THIS SECURITY HAS NOT] [NEITHER THIS SECURITY NOR THE SECURITIES INTO WHICH THIS SECURITY IS [CONVERTIBLE] [EXERCISABLE] HAVE] BEEN REGISTERED WITH THE SECURITIES AND EXCHANGE COMMISSION OR THE SECURITIES COMMISSION OF ANY STATE IN RELIANCE UPON AN EXEMPTION FROM REGISTRATION UNDER THE SECURITIES ACT OF 1933, AS AMENDED (THE "SECURITIES ACT"), AND, ACCORDINGLY, MAY NOT BE OFFERED OR SOLD EXCEPT PURSUANT TO AN EFFECTIVE REGISTRATION STATEMENT UNDER THE SECURITIES ACT OR PURSUANT TO AN AVAILABLE EXEMPTION FROM, OR IN A TRANSACTION NOT SUBJECT TO, THE REGISTRATION REQUIREMENTS OF THE SECURITIES ACT AND IN ACCORDANCE WITH APPLICABLE STATE SECURITIES LAWS. THIS SECURITY [AND THE SECURITIES ISSUABLE UPON [CONVERSION]

[EXERCISE] OF THIS SECURITY] MAY BE PLEDGED IN CONNECTION WITH A BONA FIDE MARGIN ACCOUNT WITH A REGISTERED BROKER-DEALER OR OTHER LOAN WITH A FINANCIAL INSTITUTION THAT IS AN “ACCREDITED INVESTOR” AS DEFINED IN RULE 501(a) UNDER THE SECURITIES ACT OR OTHER LOAN SECURED BY SUCH SECURITIES.

The Company acknowledges and agrees that a Purchaser may from time to time pledge pursuant to a bona fide margin agreement with a registered broker-dealer or grant a security interest in some or all of the Securities to a financial institution that is an “accredited investor” as defined in Rule 501(a) under the Securities Act and, if required under the terms of such arrangement, such Purchaser may transfer pledged or secured Securities to the pledgees or secured parties. Such a pledge or transfer would not be subject to approval of the Company and no legal opinion of legal counsel of the pledgee, secured party or pledgor shall be required in connection therewith. Further, no notice shall be required of such pledge. At the appropriate Purchaser’s expense, the Company will execute and deliver such reasonable documentation as a pledgee or secured party of Securities may reasonably request in connection with a pledge or transfer of the Securities.

(c) Certificates evidencing the Note Shares and Warrant Shares and held by non-Affiliates of the Company shall not contain any legend (including the legend set forth in Section 4.1(b) hereof), (i) while a registration statement covering the resale of such security is effective under the Securities Act, (ii) following any sale of such Note Shares or Warrant Shares pursuant to Rule 144 (assuming cashless exercise of the Warrants), (iii) if such Note Shares or Warrant Shares are eligible for sale under Rule 144 (assuming cashless exercise of the Warrants) without the need to comply with the current information requirement contained in Rule 144(c), or (iv) if such legend is not required under applicable requirements of the Securities Act (including judicial interpretations and pronouncements issued by the staff of the Commission). The Company shall cause its counsel to issue a legal opinion to the Transfer Agent or the Purchaser if required by the Transfer Agent to effect the removal of the legend hereunder, or if requested by a Purchaser, respectively. If all or any portion of a Note is converted or a Warrant is exercised at a time when there is an effective registration statement to cover the resale of the Note Shares or the Warrant Shares, as applicable, or if such Note Shares or Warrant Shares may be sold under Rule 144 and the Company is then in compliance with the current public information required under Rule 144 (assuming cashless exercise of the Warrants), or if the Note Shares or Warrant Shares may be sold under Rule 144 without the requirement for the Company to be in compliance with the current public information required under Rule 144 as to such Note Shares or Warrant Shares or if such legend is not otherwise required under applicable requirements of the Securities Act (including judicial interpretations and pronouncements issued by the staff of the Commission) then such Note Shares or Warrant Shares, as applicable, shall be issued free of all legends. The Company agrees that at such time as such legend is no longer required under this Section 4.1(c), it will, no later than the earlier of (i) two Trading Days and (ii) the number of Trading Days comprising the Standard Settlement Period (as defined below) following the delivery by a Purchaser to the Company or the Transfer Agent of a certificate representing Note Shares or Warrant Shares, as the case may be, issued with a restrictive legend, together with customary representation letters duly executed by such Purchaser (such date, the “Legend Removal Date”), deliver or cause

to be delivered to such Purchaser a certificate (or book entry with the Transfer Agent) representing such shares that is free from all restrictive and other legends. The Company may not make any notation on its records or give instructions to the Transfer Agent that enlarge the restrictions on transfer set forth in this Section 4. Certificates for Securities subject to legend removal hereunder shall be transmitted by the Transfer Agent to the Purchaser by crediting the account of the Purchaser's prime broker with the Depository Trust Company System as directed by such Purchaser. As used herein, "Standard Settlement Period" means the standard settlement period, expressed in a number of Trading Days, on the Company's primary Trading Market with respect to the Common Stock as in effect on the date of delivery of a certificate representing Note Shares or Warrant Shares, as the case may be, issued with a restrictive legend.

(d) Each Purchaser, severally and not jointly with the other Purchasers, agrees with the Company that such Purchaser will sell any Securities pursuant to either the registration requirements of the Securities Act, including any applicable prospectus delivery requirements, or an exemption therefrom, and that if Securities are sold pursuant to a registration statement, they will be sold in compliance with the plan of distribution set forth therein, and acknowledges that the removal of the restrictive legend from certificates representing Securities as set forth in this Section 4.1 is predicated upon the Company's reliance upon this understanding.

4.2Furnishing of Information. Until the earlier of the time that (i) no Purchaser owns Securities and (ii) the Warrants have expired and the Notes have matured, been repaid, redeemed or converted in full or otherwise are no longer outstanding, the Company covenants to maintain the registration of the Common Stock under Section 12(b) or 12(g) of the Exchange Act and to file all reports required to be filed by the Company after the date hereof pursuant to the Exchange Act even if the Company is not then subject to the reporting requirements of the Exchange Act.

4.3Integration. The Company shall not sell, offer for sale or solicit offers to buy or otherwise negotiate in respect of any security (as defined in Section 2 of the Securities Act) that would be integrated with the offer or sale of the Securities in a manner that would require the registration under the Securities Act of the sale of the Securities or that would be integrated with the offer or sale of the Securities for purposes of the rules and regulations of any Trading Market such that it would require shareholder approval prior to the closing of such other transaction unless shareholder approval is obtained before the closing of such subsequent transaction.

4.4Securities Laws Disclosure; Publicity. The Company shall on the Closing Date, file a Current Report on Form 8-K, including copies of the Transaction Documents (or the forms thereof) as exhibits thereto, with the Commission within the time required by the Exchange Act. From and after the issuance of such Form 8-K, the Company represents to the Purchasers that it shall have publicly disclosed all material, non-public information delivered to any of the Purchasers by the Company or any of its Subsidiaries, or any of their respective officers, directors, employees or agents in connection with the transactions contemplated by the Transaction Documents. The Company and each Purchaser shall consult with each other in issuing any other press releases with respect to the transactions contemplated hereby, and neither the Company nor any Purchaser shall issue any such press release nor otherwise make any such public statement without the prior consent of the Company, with respect to any press release of any Purchaser, or

without the prior consent of each Purchaser, with respect to any press release of the Company, which consent shall not unreasonably be withheld or delayed, except if such disclosure is required by law, in which case the disclosing party shall promptly provide the other party with prior notice of such public statement or communication. Notwithstanding the foregoing, the Company shall not publicly disclose the name of any Purchaser, or include the name of any Purchaser in any filing with the Commission or any regulatory agency or Trading Market, without the prior written consent of such Purchaser, except (a) as required by federal securities law in connection with the filing of final Transaction Documents (or disclosure with respect thereto) with the Commission and (b) to the extent such disclosure is required by law or Trading Market regulations, in which case the Company shall provide the Purchasers with prior notice of such disclosure permitted under this clause (b).

4.5 Shareholder Rights Plan. No claim will be made or enforced by the Company or, with the consent of the Company, any other Person, that any Purchaser is an “Acquiring Person” under any control share acquisition, business combination, poison pill (including any distribution under a rights agreement) or similar anti-takeover plan or arrangement in effect or hereafter adopted by the Company, or that any Purchaser could be deemed to trigger the provisions of any such plan or arrangement, by virtue of receiving Securities under the Transaction Documents or under any other agreement between the Company and the Purchasers.

4.6 Non-Public Information. Except with respect to the material terms and conditions of the transactions contemplated by the Transaction Documents and any material non-public information set forth on the Disclosure Schedules, which material terms and conditions and material non-public information shall be disclosed pursuant to Section 4.4, the Company covenants and agrees that neither it, nor any other Person acting on its behalf will provide any Purchaser or its agents or counsel with any information that constitutes, or the Company reasonably believes constitutes, material non-public information in connection with the transactions contemplated by the Transaction Documents, unless prior thereto such Purchaser shall have consented to the receipt of such information and agreed with the Company to keep such information confidential. The Company understands and confirms that each Purchaser shall be relying on the foregoing covenant in effecting transactions in securities of the Company. To the extent that the Company, any of its Subsidiaries, or any of their respective officers, directors, agents, employees or Affiliates delivers any material, non-public information to a Purchaser without such Purchaser’s consent in contravention of this Section 4.6, the Company hereby covenants and agrees that such Purchaser shall not have any duty of confidentiality to the Company, any of its Subsidiaries, or any of their respective officers, directors, agents, employees or Affiliates, or a duty to the Company, any of its Subsidiaries or any of their respective officers, directors, agents, employees or Affiliates not to trade on the basis of, such material, non-public information, provided that the Purchaser shall remain subject to applicable law. To the extent that any notice provided pursuant to any Transaction Document constitutes, or contains, material, non-public information regarding the Company or any Subsidiaries, the Company shall simultaneously file such notice with the Commission pursuant to a Current Report on Form 8-K. The Company understands and confirms that each Purchaser shall be relying on the foregoing covenant in effecting transactions in securities of the Company.

4.7 Use of Proceeds. The Company shall use the net proceeds from the sale of the Securities hereunder for working capital and general corporate purposes and shall not use such

proceeds: (a) for the satisfaction of any portion of the Company's debt (other than payment of trade payables in the ordinary course of the Company's business and prior practices and payment of interest, principal, a redemption price or other amounts when and as due on the Notes), (b) for the redemption of any Common Stock or Common Stock Equivalents or (c) in violation of FCPA or OFAC regulations.

4.8 Indemnification of Purchasers. Subject to the provisions of this Section 4.8, the Company will indemnify and hold each Purchaser and its directors, officers, shareholders, members, partners, employees and agents (and any other Persons with a functionally equivalent role of a Person holding such titles notwithstanding a lack of such title or any other title), each Person who controls such Purchaser (within the meaning of Section 15 of the Securities Act and Section 20 of the Exchange Act), and the directors, officers, shareholders, agents, members, partners or employees (and any other Persons with a functionally equivalent role of a Person holding such titles notwithstanding a lack of such title or any other title) of such controlling persons (each, a "Purchaser Party") harmless from any and all losses, liabilities, obligations, claims, contingencies, damages, costs and expenses, including all judgments, amounts paid in settlements, court costs and reasonable attorneys' fees and costs of investigation (collectively, "Losses") that any such Purchaser Party may suffer or incur as a result of or relating to (a) any breach of any of the representations, warranties, covenants or agreements made by the Company in this Agreement or in the other Transaction Documents or (b) any action instituted against the Purchaser Parties in any capacity, or any of them or their respective Affiliates, by any stockholder of the Company who is not an Affiliate of such Purchaser Party, with respect to any of the transactions contemplated by the Transaction Documents (unless such action is solely based upon a material breach of such Purchaser Party's representations, warranties or covenants under the Transaction Documents or any agreements or understandings such Purchaser Party may have with any such stockholder or any violations by such Purchaser Party of state or federal securities laws or any conduct by such Purchaser Party which is finally judicially determined to constitute fraud, gross negligence or willful misconduct). If any action shall be brought against any Purchaser Party in respect of which indemnity may be sought pursuant to this Agreement, such Purchaser Party shall promptly notify the Company in writing, and the Company shall have the right to assume the defense thereof with counsel of its own choosing reasonably acceptable to the Purchaser Party. Any Purchaser Party shall have the right to employ separate counsel in any such action and participate in the defense thereof, but the fees and expenses of such counsel shall be at the expense of such Purchaser Party except to the extent that (i) the employment thereof has been specifically authorized by the Company in writing, (ii) the Company has failed after a reasonable period of time to assume such defense and to employ counsel or (iii) in such action there is, in the reasonable opinion of counsel, a material conflict on any material issue between the position of the Company and the position of such Purchaser Party, in which case the Company shall be responsible for the reasonable fees and expenses of no more than one such separate counsel. The Company will not be liable to any Purchaser Party under this Agreement (y) for any settlement by a Purchaser Party effected without the Company's prior written consent, which shall not be unreasonably withheld or delayed; or (z) to the extent, but only to the extent that a loss, claim, damage or liability is attributable to any Purchaser Party's breach of any of the representations, warranties, covenants or agreements made by such Purchaser Party in this Agreement or in the other Transaction Documents. The indemnification required by this Section 4.8 shall be made by periodic payments of the amount thereof during the course of the investigation or defense, as and when bills are received or are incurred. The indemnity agreements contained herein shall be in addition to any cause of action or

similar right of any Purchaser Party against the Company or others and any liabilities the Company may be subject to pursuant to law. Any Losses for which any Person is entitled to indemnification under this Section 4.8 shall be determined without duplication of recovery by reason of the state of facts giving rise to such Losses constituting a breach of more than one representation, warranty, covenant or agreement in this Agreement or the other Transaction Documents. No Person shall be entitled to indemnification under this Agreement for any Losses arising from a breach of any representation, warranty, covenant or agreement set forth herein or in the other Transaction Documents to the extent such Losses were already indemnified pursuant to the terms of this Agreement or the other Transaction Documents (for example, if damages were paid to a Person pursuant to the Buy-In and the Liquidated Damages provisions in the Warrants in connection with a failure to timely deliver the Warrant Shares, only the amount of any Losses in excess of such other remedied damages would be indemnifiable hereunder).

4.9 Reservation of Common Stock. As of the date hereof, the Company has reserved and the Company shall continue to reserve and keep available at all times, free of preemptive rights, a sufficient number (as set forth in Section 3.1(f)) of shares of Common Stock for the purpose of enabling the Company to issue Note Shares pursuant to any conversion of the Notes and Warrant Shares pursuant to any exercise of the Warrants.

4.10 Subsequent Sales of Securities.

(a) From the date hereof until sixty days after the Closing Date, neither the Company nor any Subsidiary shall (i) issue, enter into any agreement to issue or announce the issuance or proposed issuance of any equity or debt securities, other than the Securities or an Exempt Issuance, or (ii) file any registration statement or amendment or supplement thereto, other than filing a registration statement on Form S-8 in connection with any employee benefit plan; provided that, with respect to any particular transaction, this Section 4.10(a) may be waived by a vote of holders of a majority of the aggregate principal amount of the Notes then outstanding.

(b) Subject to applicable securities laws and consummation of Closing, the Company grants each Purchaser a right of first refusal for the period during which such Purchaser's Notes are outstanding and held by such Purchaser to participate in all future public and private offerings of Common Stock or Common Stock Equivalents for cash by the Company, up to an amount equal to the product of (i) such Purchaser's Subscription Amount divided by \$1,500,000, and (ii) 50% of the aggregate amount the Company proposes to raise in such offering (the "Participation Right"); provided, that if any Purchaser fails to exercise at least 20% of the aggregate amount of such Purchaser's Participation Right for a particular offering, then such Purchaser's Participation Right shall terminate with respect to all subsequent public and private offerings by the Company of Common Stock or Common Stock Equivalents. With respect to each such public or private offering, subject to applicable securities laws, the Company shall provide each Purchaser (that validly maintains its Participation Right) with reasonable notice of each such offering, and such Purchaser must elect whether it will participate in any such offering not later than one Business Day following receipt of such notice. Each Purchaser acknowledges and agrees that "reasonable notice" may be less than 24 hours in the context of certain offerings, including, without limitation, confidentially-marked overnight offerings. For the elimination of doubt, this Section 4.10 shall not apply to (i) any offering on Form S-8 (or otherwise under any equity compensation plan, whether or not registered under the Securities Act) or Form S-4, (ii) any offering or issuance of

securities in connection with the Company's or any Subsidiary's acquisition of any Person or assets, including in connection with any strategic transaction or partnership, (iii) any pro rata distribution to the Company's stockholders of rights or other securities in respect of the acquisition of Common Stock or Common Stock Equivalents, (iv) any Exempt Issuance or (v) any equity line or at-the-market offering.

4.11 Equal Treatment of Purchasers. No consideration (including any modification of this Agreement) shall be offered or paid to any Person to amend or consent to a waiver or modification of any provision of this Agreement unless the same consideration is also offered to all of the parties to this Agreement. For clarification purposes, this provision constitutes a separate right granted to each Purchaser by the Company and negotiated separately by each Purchaser, and is intended for the Company to treat the Purchasers as a class and shall not in any way be construed as the Purchasers acting in concert or as a group with respect to the purchase, disposition or voting of Securities or otherwise.

4.12 Certain Transactions and Confidentiality. Each Purchaser, severally and not jointly with the other Purchasers, covenants that neither it, nor any Affiliate acting on its behalf or pursuant to any understanding with it will execute any purchases or sales, including Short Sales, of any of the Company's securities during the period commencing with the execution of this Agreement and ending at such time that the transactions contemplated by this Agreement are first publicly announced pursuant to the initial press release as described in Section 4.4. Each Purchaser, severally and not jointly with the other Purchasers, covenants that until such time as the transactions contemplated by this Agreement are publicly disclosed by the Company pursuant to the initial press release as described in Section 4.4, such Purchaser will maintain the confidentiality of the existence and terms of this transaction and the information included in the Disclosure Schedules.

4.13 Form D; Blue Sky Filings. The Company agrees to timely file a Form D with respect to the Securities as required under Regulation D and to provide a copy thereof, promptly upon request of any Purchaser. The Company shall take such action as the Company shall reasonably determine is necessary in order to obtain an exemption for, or to qualify the Securities for, sale to the Purchasers at the Closing under applicable securities or "Blue Sky" laws of the states of the United States, and shall provide evidence of such actions promptly upon request of any Purchaser.

4.14 Acknowledgment of Dilution. The Company acknowledges that the issuance of the Securities may result in dilution of the outstanding shares of Common Stock, which dilution may be substantial under certain market conditions. The Company further acknowledges that its obligations under the Transaction Documents, including, without limitation, its obligation to issue the Note Shares and Warrant Shares pursuant to the Transaction Documents, are unconditional and absolute and not subject to any right of set off, counterclaim, delay or reduction, regardless of the effect of any such dilution or any claim the Company may have against any Purchaser and regardless of the dilutive effect that such issuance may have on the ownership of the other stockholders of the Company.

4.15 Exercise Procedures. The form of Conversion Notice included in the Notes and the form of Notice of Exercise included in the Warrants set forth the totality of the procedures

required of the Purchasers in order for a Purchaser to convert the Notes into Note Shares or exercise the Warrants, respectively. No additional legal opinion, other information or instructions shall be required of the Purchasers to convert the Notes into Note Shares or exercise their Warrants. Without limiting the preceding sentences, no ink-original of either of the Conversion Notice or Notice of Exercise shall be required, nor shall any medallion guarantee (or other type of guarantee or notarization) of any Conversion Notice or Notice of Exercise form be required in order to convert the Notes into Note Shares or exercise the Warrants, respectively. The Company shall honor (i) conversion of the Notes and (ii) exercises of the Warrants, and shall deliver Note Shares or Warrant Shares, as the case may be, in accordance with the terms, conditions and time periods set forth in the Notes and the Warrants, respectively.

4.16 Purchase Option. At any time from the Closing Date through the later of (a) the date that is one year following the Closing Date and (b) the payment in full in cash of all obligations in respect of each Transaction Document (other than inchoate obligations for indemnification and expense reimbursement that survive repayment thereof), the Purchasers shall have the collective right to acquire all outstanding shares of Common Stock of the Company not, at the time of such exercise, held by the Purchasers (the "Share Purchase"), in accordance with the terms and conditions set forth in Section 4.16 of the Disclosure Schedules, upon written notice to the Company from the holders of Notes with an aggregate principal amount of at least 2/3 of the outstanding principal amount of all outstanding Notes, and the Company agrees to provide all cooperation requested by the Purchasers to consummate such Share Purchase following receipt of written notice in accordance with this Section 4.16.

4.17 Additional Consents and Waivers.

(a) At Closing, the Purchasers shall cause the sole holder of the Company's outstanding shares of Series A Preferred Stock to deliver to the Company a written instrument (i) consenting to the negotiation, preparation, execution, delivery and performance of the Transaction Documents by the Company or any representatives thereof and (ii) waiving any outstanding redemption rights which such holder may have in connection with the Company's receipt of proceeds under the Transaction Documents.

(b) Any Purchaser that owns, directly or indirectly, securities of the Company pursuant to (including as a transferee or assign in accordance with) that certain securities purchase agreement, dated as of July 31, 2023, by and among the Company and the purchasers party thereto (the "July 2023 Agreement"), hereby waives, severally and not jointly with the other Purchasers, any outstanding right to participate, on a pro rata basis or otherwise, in any offering of securities or in any financing by the Company, as granted by the July 2023 Agreement. At Closing, the Purchasers shall cause to be delivered to the Company, evidence of the waiver of such participation rights by all purchasers party to the July 2023 Agreement that are not Purchasers hereunder.

(c) (i) Any Purchaser that owns, directly or indirectly (including through any affiliate), Common Stock purchase warrants of the Company pursuant to (including as a transferee or assign in accordance with) the July 2023 Agreement and any Purchaser that owns, directly or indirectly (including through any affiliate), Common Stock purchase warrants of the Company pursuant to (including as a transferee or assign in accordance with) that certain securities purchase agreement, dated as of January 2, 2023, by and among the Company and the purchasers party

thereto (the “January 2023 Agreement”), hereby consents, severally and not jointly with the other Purchasers, to the reduction in the number of shares of Common Stock reserved for issuance upon exercise of such warrants to zero shares of Common Stock and waives any breach in connection with such reduction in the number of reserved shares of Common Stock; provided, however, that promptly following the first date on which the Company’s Common Stock closes at or above \$0.30 per share on the Trading Market, the Company shall implement a reverse stock split of the Common Stock as soon as reasonably practical but no later than thirty days after such date and reserve 100% of the maximum number of shares of Common Stock issuable pursuant to the Common Stock purchase warrants previously issued pursuant to the January 2023 Agreement and the July 2023 Agreement.

4.18Registration Rights. Until no Purchaser owns any Securities, upon the written request by Purchasers holding a majority of the aggregate principal amount of the Notes based on the initial Subscription Amounts hereunder to the Company, the Company shall be required to register the resale of the Note Shares and the Warrant Shares with the Securities and Exchange Commission as soon as reasonably practicable.

ARTICLE V. MISCELLANEOUS

5.1Termination. This Agreement may be terminated by any Purchaser, as to such Purchaser’s obligations hereunder only and without any effect whatsoever on the obligations between the Company and the other Purchasers, by written notice to the other parties, if the Closing has not been consummated on or before December 31, 2023; provided, however, that no such termination will affect the right of any party to sue for any breach by any other party (or parties).

5.2Fees and Expenses. Except as expressly set forth in the Transaction Documents to the contrary, each party shall pay the fees and expenses of its advisers, counsel, accountants and other experts, if any, and all other expenses incurred by such party incident to the negotiation, preparation, execution, delivery and performance of this Agreement; provided that, subject to consummation of the Closing, the Company shall reimburse Purchasers’ legal counsel for fees and expenses up to \$50,000. The Company shall pay all Transfer Agent fees (including, without limitation, any fees required for same-day processing of any instruction letter delivered by the Company and any exercise notice delivered by a Purchaser), stamp taxes and other taxes and duties levied in connection with the delivery of any Securities to the Purchasers (excluding any successors or assigns thereof).

5.3Entire Agreement. The Transaction Documents, together with the exhibits and schedules thereto, contain the entire understanding of the parties with respect to the subject matter hereof and thereof and supersede all prior agreements and understandings, oral or written, with respect to such matters, which the parties acknowledge have been merged into such documents, exhibits and schedules.

5.4Notices. Any and all notices or other communications or deliveries required or permitted to be provided hereunder shall be in writing and shall be deemed given and effective on the earliest of: (a) the time of transmission, if such notice or communication is delivered via facsimile at the facsimile number or email at the email address as set forth on the signature pages

attached hereto at or prior to 5:30 p.m. (New York City time) on a Trading Day, (b) the next Trading Day after the time of transmission, if such notice or communication is delivered via facsimile at the facsimile number or email at the email address as set forth on the signature pages attached hereto on a day that is not a Trading Day or later than 5:30 p.m. (New York City time) on any Trading Day, (c) the second Trading Day following the date of mailing, if sent by U.S. nationally recognized overnight courier service or (d) upon actual receipt by the party to whom such notice is required to be given. The address for such notices and communications shall be as set forth on the signature pages attached hereto.

5.5 Amendments; Waivers. No provision of this Agreement may be waived, modified, supplemented or amended except in a written instrument signed, in the case of an amendment, by the Company and Purchasers which purchased at least 2/3 in aggregate principal amount of the Notes based on the initial Subscription Amounts hereunder (or, prior to the Closing, the Company and each Purchaser) or, in the case of a waiver, by the party against whom enforcement of any such waived provision is sought, provided that if any amendment, modification or waiver disproportionately and adversely impacts a Purchaser (or group of Purchasers), the consent of at least 2/3 in aggregate principal amount of the Notes (based on the initial Subscription Amounts hereunder) of such disproportionately impacted Purchaser (or group of Purchasers) shall also be required. No waiver of any default with respect to any provision, condition or requirement of this Agreement shall be deemed to be a continuing waiver in the future or a waiver of any subsequent default or a waiver of any other provision, condition or requirement hereof, nor shall any delay or omission of any party to exercise any right hereunder in any manner impair the exercise of any such right. Any proposed amendment or waiver that disproportionately, materially and adversely affects the rights and obligations of any Purchaser relative to the comparable rights and obligations of the other Purchasers shall require the prior written consent of such adversely affected Purchaser. Any amendment effected in accordance with this Section 5.5 shall be binding upon each Purchaser and holder of Securities and the Company.

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

5.7 Successors and Assigns. This Agreement shall be binding upon and inure to the benefit of the parties and their respective successors and permitted assigns. The Company may not assign this Agreement or any rights or obligations hereunder without the prior written consent of each Purchaser (other than by merger). Any Purchaser may assign any or all of its rights under this Agreement to any Person to whom such Purchaser assigns or transfers any Securities in accordance with the terms of this Agreement and the applicable Securities, provided that such transferee agrees in writing to be bound, with respect to the transferred Securities, by the provisions of the Transaction Documents that apply to the "Purchasers."

5.8 No Third-Party Beneficiaries. This Agreement is intended for the benefit of the parties hereto and their respective successors and permitted assigns and is not for the benefit of, nor may any provision hereof be enforced by, any other Person.

5.9 Governing Law. All questions concerning the construction, validity, enforcement and interpretation of the Transaction Documents shall be governed by and construed and enforced in accordance with the internal laws of the State of New York, without regard to the principles of

conflicts of law thereof that would result in the application of the laws of any jurisdiction other than the State of New York. Each party agrees that all legal Proceedings concerning the interpretations, enforcement and defense of the transactions contemplated by this Agreement and any other Transaction Documents (whether brought against a party hereto or its affiliates, directors, officers, shareholders, partners, members, employees or agents) shall be commenced exclusively in the state and federal courts sitting in the City of New York. Each party hereby irrevocably submits to the exclusive jurisdiction of the state and federal courts sitting in the City of New York, Borough of Manhattan 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 Action or Proceeding, any claim that it is not personally subject to the jurisdiction of any such court, that such Action or Proceeding is improper or is an inconvenient venue for such Proceeding. Each party hereby irrevocably waives personal service of process and consents to process being served in any such 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 Agreement 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 law. If any party shall commence an Action or Proceeding to enforce any provisions of the Transaction Documents, then, in addition to the obligations of the Company under Section 4.8, the prevailing party in such Action or Proceeding shall be reimbursed by the non-prevailing party for its reasonable attorneys' fees and other costs and expenses incurred with the investigation, preparation and prosecution of such Action or Proceeding.

5.10 Survival. The representations and warranties contained herein shall survive the Closing and the delivery of the Securities.

5.11 Execution. This Agreement may be executed in two or more counterparts, all of which when taken together shall be considered one and the same agreement and shall become effective when counterparts have been signed by each party and delivered to each other party, it being understood that the parties need not sign the same counterpart. In the event that any signature is delivered by electronic signature (including via DocuSign), facsimile transmission or by e-mail delivery of a “.pdf” (or similar) format data file, such signature shall create a valid and binding obligation of the party executing (or on whose behalf such signature is executed) with the same force and effect as if such electronic, facsimile or “.pdf” (or similar) signature page were an original thereof.

5.12 Severability. If any term, provision, covenant or restriction of this Agreement is held by a court of competent jurisdiction to be invalid, illegal, void or unenforceable, the remainder of the terms, provisions, covenants and restrictions set forth herein shall remain in full force and effect and shall in no way be affected, impaired or invalidated, and the parties hereto shall use their commercially reasonable efforts to find and employ an alternative means to achieve the same or substantially the same result as that contemplated by such term, provision, covenant or restriction. It is hereby stipulated and declared to be the intention of the parties that they would have executed the remaining terms, provisions, covenants and restrictions without including any of such that may be hereafter declared invalid, illegal, void or unenforceable.

5.13 Rescission and Withdrawal Right. Notwithstanding anything to the contrary contained in (and without limiting any similar provisions of) the Transaction Documents, whenever any Purchaser exercises a right, election, demand or option owed to such Purchaser by the Company under a Transaction Document and the Company does not timely perform its related obligations within the periods therein provided, then, prior to the performance by the Company of the Company's related obligation, such Purchaser may rescind or withdraw, in its sole discretion from time to time upon written notice to the Company, any relevant notice, demand or election in whole or in part without prejudice to its future actions and rights.

5.14 Replacement of Securities. If any certificate or instrument evidencing any Securities is mutilated, lost, stolen or destroyed, the Company shall issue or cause to be issued in exchange and substitution for and upon surrender and cancellation thereof (in the case of mutilation), or in lieu of and substitution therefor, a new certificate or instrument, but only upon receipt of evidence reasonably satisfactory to the Company of such loss, theft or destruction. The applicant for a new certificate or instrument under such circumstances shall also pay any reasonable third-party costs (including customary indemnity) associated with the issuance of such replacement Securities.

5.15 Remedies. In addition to being entitled to exercise all rights provided herein or granted by law, including recovery of damages, each of the Purchasers and the Company will be entitled to specific performance under the Transaction Documents. The parties agree that monetary damages may not be adequate compensation for any loss incurred by reason of any breach of obligations contained in the Transaction Documents and hereby agree to waive and not to assert in any Action for specific performance of any such obligation the defense that a remedy at law would be adequate.

5.16 Payment Set Aside. To the extent that the Company makes a payment or payments to any Purchaser pursuant to any Transaction Document or a Purchaser enforces or exercises its rights thereunder, and such payment or payments or the proceeds of such enforcement or exercise or any part thereof are subsequently invalidated, declared to be fraudulent or preferential, set aside, recovered from, disgorged by or are required to be refunded, repaid or otherwise restored to the Company, a trustee, receiver or any other Person under any law (including, without limitation, any bankruptcy law, state or federal law, common law or equitable cause of action), then to the extent of any such restoration the obligation or part thereof originally intended to be satisfied shall be revived and continued in full force and effect as if such payment had not been made or such enforcement or setoff had not occurred.

5.17 Independent Nature of Purchasers' Obligations and Rights. The obligations of each Purchaser under any Transaction Document are several and not joint with the obligations of any other Purchaser, and no Purchaser shall be responsible in any way for the performance or non-performance of the obligations of any other Purchaser under any Transaction Document. Nothing contained herein or in any other Transaction Document, and no action taken by any Purchaser pursuant hereto or thereto, shall be deemed to constitute the Purchasers as a partnership, an association, a joint venture or any other kind of entity, or create a presumption that the Purchasers are in any way acting in concert or as a group with respect to such obligations or the transactions contemplated by the Transaction Documents. Subject to the provisions of Section 5.18, each Purchaser shall be entitled to independently protect and enforce its rights including, without

limitation, the rights arising out of this Agreement or out of the other Transaction Documents, and it shall not be necessary for any other Purchaser to be joined as an additional party in any Proceeding for such purpose. Each Purchaser has been represented by its own separate legal counsel in its review and negotiation of the Transaction Documents. The Company has elected to provide all Purchasers with the same terms and Transaction Documents for the convenience of the Company and not because it was required or requested to do so by any of the Purchasers. It is expressly understood and agreed that each provision contained in this Agreement and in each other Transaction Document is between the Company and a Purchaser, solely, and not between the Company and the Purchasers collectively and not between and among the Purchasers.

5.18 Collective Action; Pro Rata Treatment.

(a) Notwithstanding anything to the contrary contained herein or in any other Transaction Document, the authority to enforce rights and remedies under the Notes against the Company and its affiliates or any of them shall be vested exclusively in, and all actions and proceedings at law in connection with such enforcement shall be instituted and maintained exclusively by, the Required Holders (as defined in the Notes) for the benefit of all the holders of the Notes. No individual holder of a Note shall have any rights in its capacity as a holder of such Note to enforce the terms of such Note (or any security interest created thereby) against the Company and its affiliates or any of them in the absence of a determination by the Required Holders to take such action.

(b) All payments owed in respect of the principal, interest or other amounts payable under the Notes shall be paid ratably to the holders of the Notes in accordance with the respective aggregate principal amounts of the Notes held by such holder. If a holder of a Note shall obtain payment of any principal of, or interest on, its Note in any manner (including by exercise of any rights against any collateral or other property of the Company), such holder shall promptly pay to each other holder of a Note an amount sufficient to cause such payment to be ratably applied to the holders of Notes in accordance with the immediately preceding sentence.

5.19 Saturdays, Sundays, Holidays, etc. If the last or appointed day for the taking of any action or the expiration of any right required or granted herein shall not be a Business Day, then such action may be taken or such right may be exercised on the next succeeding Business Day.

5.20 Construction. The parties agree that each of them and/or their respective counsel have reviewed and had an opportunity to revise the Transaction Documents and, therefore, the normal rule of construction to the effect that any ambiguities are to be resolved against the drafting party shall not be employed in the interpretation of the Transaction Documents or any amendments thereto. In addition, each and every reference to share prices and shares of Common Stock in any Transaction Document shall be subject to adjustment for reverse and forward stock splits, stock dividends, stock combinations and other similar transactions of the Common Stock that occur after the date of this Agreement.

5.21 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.

(Signature Pages Follow)

IN WITNESS WHEREOF, the parties hereto have caused this Securities Purchase Agreement to be duly executed by their respective authorized signatories as of the date first indicated above.

COMERA LIFE SCIENCES HOLDINGS, INC.

Address for Notice:

12 Gill Street
Suite 4650
Woburn, MA 01801

By: /s/ Michael Campbell

Name: Michael Campbell

Title: Executive Vice President and CFO

With a copy to (which shall not constitute notice):

Foley Hoag LLP

155 Seaport Boulevard

Boston, MA 02210

Attn: Jeffrey L. Quillen and Ryan M. Rourke Reed

Email: jlq@foleyhoag.com and rrourkereed@foleyhoag.com

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SIGNATURE PAGE FOR PURCHASER FOLLOWS]

[PURCHASER SIGNATURE PAGES TO SECURITIES PURCHASE AGREEMENT]

IN WITNESS WHEREOF, the undersigned have caused this Securities Purchase Agreement to be duly executed by their respective authorized signatories as of the date first indicated above.

Name of Purchaser: Charles Cherington

Signature of Authorized Signatory of Purchaser: /s/ Charles Cherington

Name of Authorized Signatory: Charles Cherington

Title of Authorized Signatory: Individual

Email Address of Authorized Signatory: _____

Address for Notice to Purchaser:

Address for Delivery of Securities to Purchaser (if not same as address for notice):

Note Principal Amount: \$567,900

Beneficial Ownership Blocker 4.99% or 9.99% or 19.99%

Warrants: 20,650,908

Beneficial Ownership Blocker 4.99% or 9.99% or 19.99%

EIN Number: _____

[SIGNATURE PAGES CONTINUE]

[PURCHASER SIGNATURE PAGES TO SECURITIES PURCHASE AGREEMENT]

IN WITNESS WHEREOF, the undersigned have caused this Securities Purchase Agreement to be duly executed by their respective authorized signatories as of the date first indicated above.

Name of Purchaser: IAF, LLC

Signature of Authorized Signatory of Purchaser: /s/ Edward Bennett

Name of Authorized Signatory: Edward Bennett

Title of Authorized Signatory: Agent

Email Address of Authorized Signatory: _____

Address for Notice to Purchaser:

Address for Delivery of Securities to Purchaser (if not same as address for notice):

Note Principal Amount: \$210,000

Beneficial Ownership Blocker 4.99% or 9.99% or 19.99%

Warrants: 7,636,362

Beneficial Ownership Blocker 4.99% or 9.99% or 19.99%

EIN Number: _____

[SIGNATURE PAGES CONTINUE]

[PURCHASER SIGNATURE PAGES TO SECURITIES PURCHASE AGREEMENT]

IN WITNESS WHEREOF, the undersigned have caused this Securities Purchase Agreement to be duly executed by their respective authorized signatories as of the date first indicated above.

Name of Purchaser: Freebird Partners LP

Signature of Authorized Signatory of Purchaser: /s/ Curtis Huff

Name of Authorized Signatory: Curtis Huff

Title of Authorized Signatory: President and Chairman

Email Address of Authorized Signatory: _____

Address for Notice to Purchaser:

Address for Delivery of Securities to Purchaser (if not same as address for notice):

Note Principal Amount: \$134,950

Beneficial Ownership Blocker 4.99% or 9.99% or 19.99%

Warrants: 4,907,268

Beneficial Ownership Blocker 4.99% or 9.99% or 19.99%

EIN Number: _____

[SIGNATURE PAGES CONTINUE]

[PURCHASER SIGNATURE PAGES TO SECURITIES PURCHASE AGREEMENT]

IN WITNESS WHEREOF, the undersigned have caused this Securities Purchase Agreement to be duly executed by their respective authorized signatories as of the date first indicated above.

Name of Purchaser: Regolith Capital Investments L.P.

Signature of Authorized Signatory of Purchaser: /s/ Shameek Konar

Name of Authorized Signatory: Shameek Konar

Title of Authorized Signatory: General Partner

Email Address of Authorized Signatory: _____

Address for Notice to Purchaser:

Address for Delivery of Securities to Purchaser (if not same as address for notice):

Note Principal Amount: \$112,500

Beneficial Ownership Blocker 4.99% or 9.99% or 19.99%

Warrants: 4,090,908

Beneficial Ownership Blocker 4.99% or 9.99% or 19.99%

EIN Number: _____

[SIGNATURE PAGES CONTINUE]

[PURCHASER SIGNATURE PAGES TO SECURITIES PURCHASE AGREEMENT]

IN WITNESS WHEREOF, the undersigned have caused this Securities Purchase Agreement to be duly executed by their respective authorized signatories as of the date first indicated above.

Name of Purchaser: John D. Halpern Revocable Trust

Signature of Authorized Signatory of Purchaser: /s/ John Halpern

Name of Authorized Signatory: John Halpern

Title of Authorized Signatory: Trustee

Email Address of Authorized Signatory: _____

Address for Notice to Purchaser:

Address for Delivery of Securities to Purchaser (if not same as address for notice):

Note Principal Amount: \$112,028

Beneficial Ownership Blocker 4.99% or 9.99% or 19.99%

Warrants: 4,073,738

Beneficial Ownership Blocker 4.99% or 9.99% or 19.99%

EIN Number: _____

[SIGNATURE PAGES CONTINUE]

[PURCHASER SIGNATURE PAGES TO SECURITIES PURCHASE AGREEMENT]

IN WITNESS WHEREOF, the undersigned have caused this Securities Purchase Agreement to be duly executed by their respective authorized signatories as of the date first indicated above.

Name of Purchaser: Denny Family Partners II, LLC

Signature of Authorized Signatory of Purchaser: /s/ George Denny

Name of Authorized Signatory: George Denny

Title of Authorized Signatory: Manager

Email Address of Authorized Signatory: _____

Address for Notice to Purchaser:

Address for Delivery of Securities to Purchaser (if not same as address for notice):

Note Principal Amount: 107,622

Beneficial Ownership Blocker 4.99% or 9.99% or 19.99%

Warrants: 3,913,526

Beneficial Ownership Blocker 4.99% or 9.99% or 19.99%

EIN Number: _____

[SIGNATURE PAGES CONTINUE]

[PURCHASER SIGNATURE PAGES TO SECURITIES PURCHASE AGREEMENT]

IN WITNESS WHEREOF, the undersigned have caused this Securities Purchase Agreement to be duly executed by their respective authorized signatories as of the date first indicated above.

Name of Purchaser: The Alexander V. Soan 2019 Irrevocable Trust

Signature of Authorized Signatory of Purchaser: /s/ Zoya Soane; /s/ Nancy Wrieden

Name of Authorized Signatory: Zoya Soane

Title of Authorized Signatory: Co-Trustee

Email Address of Authorized Signatory: _____

Name of Authorized Co-Signatory: Nancy Wrieden

Title of Authorized Co-Signatory: Co-Trustee

Address for Notice to Purchaser:

Address for Delivery of Securities to Purchaser (if not same as address for notice):

Note Principal Amount: \$75,000

Beneficial Ownership Blocker 4.99% or 9.99% or 19.99%

Warrants: 2,727,272

Beneficial Ownership Blocker 4.99% or 9.99% or 19.99%

EIN Number: _____

[SIGNATURE PAGES CONTINUE]

[PURCHASER SIGNATURE PAGES TO SECURITIES PURCHASE AGREEMENT]

IN WITNESS WHEREOF, the undersigned have caused this Securities Purchase Agreement to be duly executed by their respective authorized signatories as of the date first indicated above.

Name of Purchaser: The Nicholas V. Soan 2019 Irrevocable Trust

Signature of Authorized Signatory of Purchaser: /s/ Zoya Soane; /s/ Nancy Wrieden

Name of Authorized Signatory: Zoya Soane

Title of Authorized Signatory: Co-Trustee

Email Address of Authorized Signatory: _____

Name of Authorized Co-Signatory: Nancy Wrieden

Title of Authorized Co-Signatory: Co-Trustee

Address for Notice to Purchaser:

Address for Delivery of Securities to Purchaser (if not same as address for notice):

Note Principal Amount: \$75,000

Beneficial Ownership Blocker 4.99% or 9.99% or 19.99%

Warrants: 2,727,272

Beneficial Ownership Blocker 4.99% or 9.99% or 19.99%

EIN Number: _____

[SIGNATURE PAGES CONTINUE]

[PURCHASER SIGNATURE PAGES TO SECURITIES PURCHASE AGREEMENT]

IN WITNESS WHEREOF, the undersigned have caused this Securities Purchase Agreement to be duly executed by their respective authorized signatories as of the date first indicated above.

Name of Purchaser: Warren Street Legacy, LLC

Signature of Authorized Signatory of Purchaser: /s/ Ian Halpern

Name of Authorized Signatory: Ian Halpern

Title of Authorized Signatory: Manager

Email Address of Authorized Signatory: _____

Address for Notice to Purchaser:

Address for Delivery of Securities to Purchaser (if not same as address for notice):

Note Principal Amount: \$37,500

Beneficial Ownership Blocker 4.99% or 9.99% or 19.99%

Warrants: 1,363,636

Beneficial Ownership Blocker 4.99% or 9.99% or 19.99%

EIN Number: _____

[SIGNATURE PAGES CONTINUE]

[PURCHASER SIGNATURE PAGES TO SECURITIES PURCHASE AGREEMENT]

IN WITNESS WHEREOF, the undersigned have caused this Securities Purchase Agreement to be duly executed by their respective authorized signatories as of the date first indicated above.

Name of Purchaser: Tucker R. Halpern 2020 Trust

Signature of Authorized Signatory of Purchaser: /s/ Tucker R. Halpern

Name of Authorized Signatory: Tucker R. Halpern

Title of Authorized Signatory: Trustee

Email Address of Authorized Signatory: _____

Address for Notice to Purchaser:

Address for Delivery of Securities to Purchaser (if not same as address for notice):

Note Principal Amount: \$30,000

Beneficial Ownership Blocker 4.99% or 9.99% or 19.99%

Warrants: 1,090,908

Beneficial Ownership Blocker 4.99% or 9.99% or 19.99%

EIN Number: _____

[SIGNATURE PAGES CONTINUE]

[PURCHASER SIGNATURE PAGES TO SECURITIES PURCHASE AGREEMENT]

IN WITNESS WHEREOF, the undersigned have caused this Securities Purchase Agreement to be duly executed by their respective authorized signatories as of the date first indicated above.

Name of Purchaser: Purchase Capital LLC

Signature of Authorized Signatory of Purchaser: /s/ Nicholas Singer

Name of Authorized Signatory: Nicholas Singer

Title of Authorized Signatory: Managing Member

Email Address of Authorized Signatory: _____

Address for Notice to Purchaser:

Address for Delivery of Securities to Purchaser (if not same as address for notice):

Note Principal Amount: \$22,500

Beneficial Ownership Blocker 4.99% or 9.99% or 19.99%

Warrants: 818,180

Beneficial Ownership Blocker 4.99% or 9.99% or 19.99%

EIN Number: _____

[SIGNATURE PAGES CONTINUE]

[PURCHASER SIGNATURE PAGES TO SECURITIES PURCHASE AGREEMENT]

IN WITNESS WHEREOF, the undersigned have caused this Securities Purchase Agreement to be duly executed by their respective authorized signatories as of the date first indicated above.

Name of Purchaser: Stephen Older

Signature of Authorized Signatory of Purchaser: /s/ Stephen Older

Name of Authorized Signatory: Stephen Older

Title of Authorized Signatory: Individual

Email Address of Authorized Signatory: _____

Address for Notice to Purchaser:

Address for Delivery of Securities to Purchaser (if not same as address for notice):

Note Principal Amount: \$15,000

Beneficial Ownership Blocker 4.99% or 9.99% or 19.99%

Warrants: 545,454

Beneficial Ownership Blocker 4.99% or 9.99% or 19.99%

EIN Number: _____

[SIGNATURE PAGES CONTINUE]

Exhibit A

[Form of Note – Attached]

Exhibit B

[Form of Warrant – Attached]
