

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, DC 20549

FORM 8-K

CURRENT REPORT
Pursuant to Section 13 OR 15(d) of The Securities Exchange Act of 1934

Date of report (Date of earliest event reported): August 14, 2020

PHUNWARE, INC.
(Exact name of registrant as specified in its charter)

<u>Delaware</u> (State or other jurisdiction of incorporation)	<u>001-37862</u> (Commission File Number)	<u>26-4413774</u> (IRS Employer Identification No.)
<u>7800 Shoal Creek Blvd, Suite 230-S, Austin, Texas</u> (Address of principal executive offices)		<u>78757</u> (Zip Code)

Registrant's Telephone Number, Including Area Code: (512) 693-4199

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))

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, par value \$0.0001 per share	PHUN	The NASDAQ Capital Market
Warrants to purchase one share of Common Stock	PHUNW	The NASDAQ Capital Market

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

Emerging growth company

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

Item 1.01 Entry Into a Material Definitive Agreement.

On August 14, 2020, Phunware, Inc. (the “Company”) entered into an At-The-Market Issuance Sales Agreement (the “Sales Agreement”) with Ascendant Capital Markets, LLC (“Ascendant”), as sales agent, pursuant to which the Company may offer and sell, from time to time, through Ascendant shares of our common stock, par value \$0.0001 per share.

The Company is not obligated to sell any shares under the Sales Agreement. Subject to the terms and conditions of the Sales Agreement, Ascendant will use commercially reasonable efforts consistent with its normal trading and sales practices, applicable state and federal law, rules and regulations and the rules of the Nasdaq Capital Market to sell shares from time to time based upon the Company’s instructions, including any price, time or size limits specified by the Company. Under the Sales Agreement, Ascendant may sell shares by any method deemed to be an “at the market” offering as defined in Rule 415 under the U.S. Securities Act of 1933, as amended, or any other method permitted by law, including in privately negotiated transactions. Ascendant’s obligations to sell shares under the Sales Agreement are subject to satisfaction of certain conditions, including customary closing conditions for transactions of this nature. The Company will pay Ascendant a commission of 3% of the aggregate gross proceeds from each sale of shares and has agreed to provide Ascendant with customary indemnification and contribution rights. The Company has also agreed to reimburse Ascendant for certain specified expenses.

Sales of shares of common stock under the Sales Agreement will be made pursuant to the registration statement on Form S-3 (File No. 333-235896), which was declared effective by the U.S. Securities and Exchange Commission (the “SEC”) on January 23, 2020, and a related Prospectus Supplement to be filed with the SEC, for an aggregate offering price of up to \$15,000,000.

The foregoing summary of the Sales Agreement does not purport to be complete and is qualified in its entirety by reference to the full text of the Sales Agreement, which is filed herewith as Exhibit 10.1.

This Current Report on Form 8-K shall not constitute an offer to sell or the solicitation of an offer to buy any shares under the Sales Agreement, nor shall there be any sale of such shares in any state in which such offer, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of any such state.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

<i>Exhibit No.</i>	<i>Exhibit Title</i>
10.1	<u>At-The-Market Issuance Sales Agreement, by and between Phunware, Inc. and H.C. Ascendant Capital Markets, LLC, dated August 14, 2020.</u>

SIGNATURES

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

Dated: August 14, 2020

Phunware, Inc.

By: /s/ Matt Aune
Matt Aune
Chief Financial Officer

PHUNWARE, INC.

Common Stock
(par value \$0.0001 per share)

At-The-Market Issuance Sales Agreement

August 14, 2020

Ascendant Capital Markets, LLC
18881 Von Karman Avenue, 16th Floor
Irvine, CA 92612

Ladies and Gentlemen:

Phunware, Inc., a Delaware corporation (the "Company"), confirms its agreement (this "Agreement") with Ascendant Capital Markets, LLC ("Ascendant"), as follows:

1. Issuance and Sale of Shares. The Company agrees to issue and sell through Ascendant, shares (the "Placement Shares") of the Company's common stock, par value \$0.0001 per share (the "Common Stock"), from time to time during the term of this Agreement and on the terms set forth in this Agreement; *provided however*, that in no event will the Company issue or sell through Ascendant such number of Placement Shares that would (a) cause the aggregate offering price of such Placement Shares to exceed the remaining maximum aggregate offering price of securities of the Company registered on the effective Registration Statement (as defined below) pursuant to which the offering is being made, or (b) exceed the number of the Company's authorized but unissued shares of Common Stock (the lesser of (a) and (b), the "Maximum Amount"). Notwithstanding anything to the contrary contained herein, the parties hereto agree that compliance with the limitations set forth in this Section 1 on the amount of Placement Shares issued and sold under this Agreement will be the sole responsibility of the Company and that Ascendant will have no obligation in connection with such compliance. The issuance and sale of Placement Shares through Ascendant will be effected pursuant to the Registration Statement (as defined below) filed by the Company and declared effective by the U.S. Securities and Exchange Commission (the "SEC"), although nothing in this Agreement will be construed as requiring the Company to use the Registration Statement to issue Common Stock.

The Company has filed with the SEC, in accordance with the provisions of the Securities Act of 1933, as amended (the "Securities Act"), and the rules and regulations thereunder (the "Securities Act Regulations"), a registration statement on Form S-3 (File No. 333-235896), including a base prospectus, relating to certain securities, including the Placement Shares, to be issued from time to time by the Company, and which incorporates by reference documents that the Company has filed or will file in accordance with the provisions of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), and the rules and regulations thereunder. The Company has prepared a prospectus supplement specifically relating to the Placement Shares (the "Prospectus Supplement") to the base prospectus included as part of the registration statement. The Company will furnish to Ascendant, for use by it, copies of the prospectus included as part of the registration statement, as supplemented by the Prospectus Supplement, relating to the Placement Shares. Except when the context otherwise requires, such registration statement, including all documents filed as part thereof or incorporated by reference therein, and including any information contained in a Prospectus (as defined below) subsequently filed with the SEC pursuant to Rule 424(b) under the Securities Act Regulations or deemed to be a part of the registration statement pursuant to Rule 430B of the Securities Act Regulations, is herein called the "Registration Statement." The base prospectus, including all documents incorporated therein by reference, included in the Registration Statement, as it may be supplemented by the Prospectus Supplement, in the form in which the prospectus and/or Prospectus Supplement have most recently been filed by the Company with the SEC pursuant to Rule 424(b) under the Securities Act Regulations is herein called the "Prospectus." Any reference herein to the Registration Statement, the Prospectus, or any amendment or supplement thereto will be deemed to refer to and include the documents incorporated by reference therein, and any reference herein to the terms "amend," "amendment," or "supplement" respecting the Registration Statement or the

Prospectus will be deemed to refer to and include the filing of any document with the SEC deemed to be incorporated by reference therein (the Incorporated Documents”).

For purposes of this Agreement, all references to the Registration Statement, the Prospectus, or to any amendment or supplement thereto will be deemed to include the most recent copy filed with the SEC pursuant to its Electronic Data Gathering Analysis and Retrieval System, or if applicable, the Interactive Data Electronic Application system when used by the SEC (collectively, “EDGAR”).

2. Placements. Each time that the Company wishes to issue and sell Placement Shares hereunder (each, a “Placement”), it will notify Ascendant by email notice (or other method mutually agreed to in writing by the parties) of the number of Placement Shares, the period during which sales are requested to be made, any limitation on the number of Placement Shares that may be sold in any one day, and any minimum price below which sales may not be made (a “Placement Notice”), the form of which is attached hereto as Schedule 1. The Placement Notice will originate from any of the individuals from the Company set forth on Schedule 3 (with a copy to each of the other individuals from the Company listed on the schedule) and will be addressed to each of the individuals from Ascendant set forth on Schedule 3, as Schedule 3 may be amended from time to time. The Placement Notice will be effective unless and until: (a) Ascendant declines to accept the terms contained therein for any reason, in its sole discretion; (b) the entire amount of the Placement Shares thereunder have been sold; (c) the Company suspends or terminates the Placement Notice; or (d) the Agreement has been terminated under the provisions of Section 13. The amount of any discount, commission, or other compensation to be paid by the Company to Ascendant in connection with the sale of the Placement Shares will be calculated in accordance with the terms set forth in Schedule 2. Neither the Company nor Ascendant will have any obligation whatsoever respecting a Placement or any Placement Shares unless and until the Company delivers a Placement Notice to Ascendant and Ascendant does not decline such Placement Notice pursuant to the terms set forth above, and then only upon the terms specified therein and herein. In the event of a conflict between the terms of Sections 2, 3, and 4 of this Agreement and the terms of a Placement Notice, the terms of the Placement Notice will control.

3. Sale of Placement Shares by Ascendant. Subject to the terms and conditions of this Agreement, Ascendant, for the period specified in the Placement Notice, will use its commercially reasonable efforts consistent with its normal trading and sales practices and applicable state and federal laws, rules, and regulations and the rules of The NASDAQ Capital Market (the “Exchange”), to sell the Placement Shares up to the amount specified, and otherwise in accordance with the terms of such Placement Notice. Ascendant will provide written confirmation to the Company no later than the opening of the Trading Day (as defined below) immediately following the Trading Day on which it has sold Placement Shares hereunder, setting forth the number of Placement Shares sold on such day, the compensation payable by the Company to Ascendant pursuant to Section 2 for such sales, and the Net Proceeds (as defined below) payable to the Company, with an itemization of the deductions made by Ascendant (as set forth in Section 5(b)) from the gross proceeds that it receives from such sales. Subject to the terms of the Placement Notice, Ascendant may sell Placement Shares by any method permitted by law deemed to be an “at the market” offering as defined in Rule 415(a)(1)(x) and 415(a)(4) of the Securities Act Regulations, including sales made directly on the Exchange or on any other existing trading market for the Common Stock or to or through a market maker. Subject to the terms of a Placement Notice, Ascendant may also sell Placement Shares by any other method permitted by law, including in privately negotiated transactions, with the Company’s consent. “Trading Day” means any day on which Common Stock is purchased and sold on the Exchange.

4. Suspension of Sales. The Company or Ascendant may, upon notice to the other party in writing (including by email correspondence to each of the individuals of the other party set forth on Schedule 3, if receipt of such correspondence is actually acknowledged by any of the individuals to whom the notice is sent, other than via auto-reply) or by telephone (confirmed immediately by verifiable email correspondence to each of the individuals of the other party set forth on Schedule 3), suspend any sale of Placement Shares; provided, however, that such suspension will not affect or impair any party’s obligations respecting any Placement Shares sold hereunder prior to the receipt of such notice. Each of the parties agrees that no such notice under this Section 4 will be effective against any other party unless it is made to one of the individuals named on Schedule 3 hereto, as such schedule may be amended from time to time.

5. Sale and Delivery to Ascendant: Settlement

(a) Sale of Placement Shares. On the basis of the representations and warranties herein contained and subject to the terms and conditions herein set forth, upon delivery of a Placement Notice, and unless the sale of the Placement Shares described therein has been declined, suspended, or otherwise terminated in accordance with the terms of this Agreement, Ascendant, for the period specified in the Placement Notice, will use its commercially reasonable efforts consistent with its normal trading and sales practices and applicable state and federal laws, rules and regulations and the rules of the Exchange to sell such Placement Shares up to the amount specified, and otherwise in accordance with the terms of such Placement Notice. The Company acknowledges and agrees that: (i) there can be no assurance that Ascendant will be successful in selling Placement Shares; (ii) Ascendant will incur no liability or obligation to the Company or any other Person (as defined herein) if it does not sell Placement Shares for any reason other than a failure by Ascendant to use its commercially reasonable efforts consistent with its normal trading and sales practices and applicable law and regulations to sell such Placement Shares as required under this Agreement; and (iii) Ascendant will be under no obligation to purchase Placement Shares on a principal basis pursuant to this Agreement, except as otherwise agreed by Ascendant and the Company.

(b) Settlement of Placement Shares. Unless otherwise specified in the applicable Placement Notice, settlement for sales of Placement Shares will occur on the second Trading Day (or such earlier day as is industry practice for regular-way trading) following the date on which such sales are made (each, a “Settlement Date”). The Agent shall notify the Company of each sale of Placement Shares following the close of trading on (but in any event no later than opening of trading on the Trading Day following) the Trading Day that the Agent sold Placement Shares. The amount of proceeds to be delivered to the Company on a Settlement Date against receipt of the Placement Shares sold (the “Net Proceeds”) will be equal to the aggregate sales price received by Ascendant, after deduction for: (i) Ascendant’s commission, discount, or other compensation for such sales payable by the Company pursuant to Section 2 hereof; (ii) any transaction fees imposed by any governmental or self-regulatory organization for such sales, and (iii) the balance of any unpaid costs or expenses to be paid or reimbursed by Ascendant pursuant to this Agreement.

(c) Delivery of Placement Shares. On or before each Settlement Date, the Company will, or will cause its transfer agent to, electronically transfer the Placement Shares being sold by crediting Ascendant’s or its designee’s account (*provided* Ascendant will have given the Company written notice of such designee a reasonable period of time prior to the Settlement Date) at The Depository Trust Company through its Deposit and Withdrawal at Custodian System or by such other means of delivery as may be mutually agreed upon by the parties hereto, which in all cases will be freely tradable, transferable, registered shares in good deliverable form. On each Settlement Date, Ascendant will deliver the related Net Proceeds in same-day funds to an account designated by the Company on, or prior to, the Settlement Date. The Company agrees that if the Company, or its transfer agent (if applicable), defaults in its obligation to deliver Placement Shares on a Settlement Date through no fault of Ascendant, that in addition to and in no way limiting the rights and obligations set forth in Section 11(a) hereto, it will: (i) hold Ascendant harmless against any loss, claim, damage, or expense (including reasonable and documented legal fees and expenses), as incurred, arising out of or in connection with such default by the Company or its transfer agent (if applicable); and (ii) pay to Ascendant (without duplication) any commission, discount, or other compensation to which it would otherwise have been entitled absent such default.

(d) Limitations on Offering Size. Under no circumstances will the Company cause or request the offer or sale of any Placement Shares if, after giving effect to the sale of such Placement Shares, the aggregate gross sales proceeds of Placement Shares sold pursuant to this Agreement would exceed the lesser of: (i) together with all sales of Placement Shares under this Agreement, the Maximum Amount; or (ii) the amount authorized from time to time to be issued and sold under this Agreement by the Company’s board of directors, a duly authorized committee thereof, or a duly authorized executive committee, and notified to Ascendant in writing. Under no circumstances will the Company cause or request the offer or sale of any Placement Shares pursuant to this Agreement at a price lower than the minimum price

authorized from time to time by the Company's board of directors, a duly authorized committee thereof, or a duly authorized executive committee, and notified to Ascendant in writing.

6. Representations and Warranties of the Company. The Company represents and warrants to, and agrees with Ascendant, that as of the date of this Agreement and as of each Applicable Time (as defined below), unless such representation, warranty or agreement specifies a different date or time:

(a) Registration Statement and Prospectus. The Company and, assuming no act or omission on the part of Ascendant that would make such statement untrue, the transactions contemplated by this Agreement, meet the requirements for and comply with the conditions for the use of Form S3 under the Securities Act. The Registration Statement has been filed with the SEC and has been declared effective under the Securities Act. The Prospectus Supplement will name Ascendant as the agent in the section entitled "Plan of Distribution." The Company has not received, and has no notice of, any order of the SEC preventing or suspending the use of the Registration Statement or threatening or instituting proceedings for that purpose. The Registration Statement and the offer and sale of Placement Shares as contemplated hereby meet the requirements of Rule 415 under the Securities Act and comply in all material respects with said Rule. Any statutes, regulations, contracts, or other documents that are required to be described in the Registration Statement or the Prospectus or to be filed as exhibits to the Registration Statement have been so described or filed. Copies of the Registration Statement, the Prospectus, and any such amendments or supplements and all documents incorporated by reference therein that were filed with the SEC on or prior to the date of this Agreement have been delivered, or are available through EDGAR, to Ascendant and its counsel. The Company has not distributed and, prior to the later to occur of each Settlement Date and completion of the distribution of the Placement Shares, will not distribute any offering material in connection with the offering or sale of the Placement Shares other than the Registration Statement and the Prospectus and any Issuer Free Writing Prospectus (as defined below) to which Ascendant has consented. The Common Stock is currently listed on the Exchange under the trading symbol "PHUN." Except as disclosed on Schedule 6(a) hereto and in the Registration Statement, including the Incorporated Documents, the Company has not, in the 12 months preceding the date hereof, received notice from the Exchange to the effect that the Company is not in compliance with the Exchange's listing or maintenance requirements. Except as disclosed in the Registration Statement, including the Incorporated Documents, or the Prospectus, the Company has no reason to believe that it will not in the foreseeable future continue to be in compliance with all such listing and maintenance requirements.

(b) No Misstatement or Omission. The Registration Statement, when it became effective, and the Prospectus, and any amendment or supplement thereto, on the date of such Prospectus or amendment or supplement, conformed and will conform in all material respects with the requirements of the Securities Act. At each Settlement Date, the Registration Statement and the Prospectus, as of such date, will conform in all material respects with the requirements of the Securities Act. The Registration Statement, when it became or becomes effective, did not, and will not, contain an untrue statement of a material fact or omit to state a material fact required to be stated therein or necessary to make the statements therein not misleading. The Prospectus and any amendment and supplement thereto, on the date thereof and at each Applicable Time (defined below), did not or will not include an untrue statement of a material fact or omit to state a material fact necessary to make the statements therein, in light of the circumstances under which they were made, not misleading. The documents incorporated by reference in the Prospectus or any Prospectus Supplement did not, and any further documents filed and incorporated by reference therein will not, when filed with the SEC, contain an untrue statement of a material fact or omit to state a material fact required to be stated in such document or necessary to make the statements in such document, in light of the circumstances under which they were made, not misleading. The foregoing will not apply to statements in, or omissions from, any such document made in reliance upon, and in conformity with, information furnished to the Company by Ascendant specifically for use in the preparation thereof.

(c) Conformity with Securities Act and Exchange Act. The documents incorporated by reference in the Registration Statement, the Prospectus, or any amendment or supplement thereto, when such documents were or are filed with the SEC under the Securities Act or the Exchange Act or became or

become effective under the Securities Act, as the case may be, conformed or will conform in all material respects with the requirements of the Securities Act and the Exchange Act, as applicable.

(d) Financial Information. The consolidated financial statements of the Company included or incorporated by reference in the Registration Statement, the Prospectus, and the Issuer Free Writing Prospectuses, if any, together with the related notes and schedules, complied as to form in all material respects with applicable accounting requirements and the published rules and regulations of the SEC with respect thereto as in effect as of the time of filing. Such financial statements have been prepared in accordance with generally accepted accounting principles, consistently applied, during the periods involved (except: (i) as may be otherwise indicated in such financial statements or the notes thereto; or (ii) in the case of unaudited interim statements, to the extent they may exclude footnotes or may be condensed or summary statements) and fairly present in all material respects the consolidated financial position of the Company and the Subsidiaries as of the dates indicated and the consolidated results of operations and cash flows of the Company for the periods specified (subject, in the case of unaudited statements, to normal year-end audit adjustments that will not be material, either individually or in the aggregate); the other financial and statistical data respecting the Company and the Subsidiaries contained or incorporated by reference in the Registration Statement, the Prospectus, and the Issuer Free Writing Prospectuses, if any, are accurately and fairly presented and prepared on a basis consistent with the financial statements and books and records of the Company; there are no financial statements (historical or pro forma) that are required to be included or incorporated by reference in the Registration Statement or the Prospectus that are not included or incorporated by reference as required; the Company and the Subsidiaries (as defined below) do not have any material liabilities or obligations, direct or contingent (including any off-balance sheet obligations), not described in the Registration Statement (including the exhibits thereto) and the Prospectus that are required to be described in the Registration Statement or the Prospectus (including exhibits thereto and Incorporated Documents); and all disclosures contained or incorporated by reference in the Registration Statement, the Prospectus, and the Issuer Free Writing Prospectuses, if any, regarding “non-GAAP financial measures” (as such term is defined by the rules and regulations of the SEC) comply in all material respects with Regulation G of the Exchange Act and Item 10 of Regulation S-K under the Securities Act, to the extent applicable.

(e) Conformity with EDGAR Filing. The Prospectus delivered to Ascendant for use in connection with the sale of the Placement Shares pursuant to this Agreement will be identical to the versions of the Prospectus created to be transmitted to the SEC for filing via EDGAR, except to the extent permitted by Regulation ST.

(f) Organization. The Company and any subsidiary that is a significant subsidiary (as such term is defined in Rule 1-02(w) of Regulation S-X promulgated by the SEC) (collectively, the “Subsidiaries”) are, and will be, duly organized, validly existing as a corporation, limited partnership, limited liability company, or other legal entity, and in good standing under the laws of their respective jurisdictions of organization, except where the failure to be in good standing would not, individually or in the aggregate, have a Materially Adverse Effect (as defined below) or would reasonably be expected to have a Material Adverse Effect. The Company and each of the Subsidiaries are, and will be, duly qualified as a foreign corporation for transaction of business and in good standing under the laws of each other jurisdiction in which their respective ownership or lease of property or the conduct of their respective businesses requires such qualification, and have all corporate power and authority necessary to own or hold their respective properties and to conduct their respective businesses as described in the Registration Statement and the Prospectus, except where the failure to be so qualified or in good standing or have such power or authority would not, individually or in the aggregate, have a material adverse effect or would reasonably be expected to have a material adverse effect on the assets, business, operations, earnings, properties, condition (financial or otherwise), prospects, stockholders’ equity, or results of operations of the Company and the Subsidiaries (as defined below) taken as a whole, or prevent or materially interfere with consummation of the transactions contemplated hereby (a “Material Adverse Effect”).

(g) Subsidiaries. The subsidiaries set forth on Schedule 4, are the Company’s only subsidiaries. Except as set forth in the Registration Statement and in the Prospectus, the Company owns,

directly or indirectly, all of the equity interests of the Subsidiaries free and clear of any lien, charge, security interest, encumbrance, right of first refusal, or other restriction, and all the equity interests of the Subsidiaries are validly issued and are fully paid, nonassessable, and free of preemptive and similar rights.

(h) No Violation or Default. Neither the Company nor any of its Subsidiaries is: (i) in violation of its charter or bylaws or similar organizational documents; (ii) in default, and no event has occurred that, with notice or lapse of time or both, would constitute such a default, in the due performance or observance of any term, covenant, or condition contained in any indenture, mortgage, deed of trust, loan agreement, or other agreement or instrument to which the Company or any of its Subsidiaries is a party, by which the Company or any of its Subsidiaries is bound, or to which any of the property or assets of the Company or any of its Subsidiaries are subject; or (iii) in violation of any law or statute or any judgment, order, rule, or regulation of any court, arbitrator, or governmental or regulatory authority, except, in the case of each of clauses (ii) and (iii) above, for any such violation or default that would not, individually or in the aggregate, reasonably be expected to have a Material Adverse Effect. Except as described in the Prospectus, the Prospectus Supplement, or the Incorporated Documents, to the Company's knowledge, no other party under any material contract or other agreement to which it or any of its Subsidiaries is a party is in default in any respect thereunder where such default would reasonably be expected to have a Material Adverse Effect.

(i) No Material Adverse Change. Subsequent to the respective dates as of which information is given in the Registration Statement, the Prospectus, and the Free Writing Prospectuses, if any (including any document deemed incorporated by reference therein), there has not been: (i) any Material Adverse Effect, or any development involving a prospective Material Adverse Effect, in or affecting the business, properties, management, financial, condition (financial or otherwise), results of operations, or prospects of the Company and the Subsidiaries taken as a whole; (ii) any transaction that is material to the Company and the Subsidiaries taken as a whole; (iii) any obligation or liability, direct or contingent (including any off-balance sheet obligations), incurred by the Company or any Subsidiary, that is material to the Company and the Subsidiaries taken as a whole; (iv) any material change in the capital stock other than changes resulting from any of the following transactions (each a "Permitted Transaction"): (1) the grant of additional options under the Company's existing stock option plans, (2) changes in the number of outstanding Common Stock of the Company due to the issuance of shares upon the exercise or conversion of securities exercisable for, or convertible into, Common Stock outstanding on the date hereof, (3) as a result of the sale of Placement Shares or (4) as described in a proxy statement filed on Schedule 14A or a Registration Statement on Form S-4 and otherwise publicly announced); or (v) any dividend or distribution of any kind declared, paid, or made on the capital stock of the Company or any Subsidiary, other than in each case above, in the ordinary course of business or as otherwise disclosed in the Registration Statement or Prospectus (including any document deemed incorporated by reference therein).

(j) Capitalization. The issued and outstanding shares of capital stock of the Company have been validly issued, are fully paid, and nonassessable. The Company has an authorized, issued, and outstanding capitalization as set forth in the Registration Statement and the Prospectus as of the dates referred to therein (other than changes resulting from Permitted Transactions), and such authorized capital stock conforms to the description thereof set forth in the Registration Statement and the Prospectus. The description of the Common Stock in the Registration Statement and the Prospectus is complete and accurate in all material respects. Except as disclosed in or contemplated by the Registration Statement or the Prospectus or pursuant to any Permitted Transactions, as of the date referred to therein, the Company did not have reserved or available for issuance any shares of Common Stock in respect of options, any rights or warrants to subscribe for, any securities or obligations convertible into or exchangeable for, or any contracts or commitments to issue or sell, any shares of capital stock or other securities.

(k) Authorization; Enforceability. The Company has full legal right, power, and authority to enter into this Agreement and perform the transactions contemplated hereby. This Agreement has been duly authorized, executed, and delivered by the Company and is a legal, valid, and binding agreement of the Company enforceable in accordance with its terms, except to the extent that: (i) enforceability may be limited by bankruptcy, insolvency, reorganization, moratorium, or similar laws affecting creditors' rights

generally and by general equitable principles; and (ii) the indemnification and contribution provisions of Section 11 hereof may be limited by federal or state securities laws and public policy considerations in respect thereof.

(l) Authorization of Placement Shares. The Placement Shares, when issued and delivered pursuant to the terms approved by the board of directors of the Company or a duly authorized committee thereof, or a duly authorized executive committee, against payment therefor as provided herein, will be duly and validly authorized and issued and fully paid and nonassessable, free and clear of any pledge, lien, encumbrance, security interest, or other claim (other than any pledge, lien, encumbrance, security interest, or other claim arising from an act or omission of Ascendant or a purchaser), including any statutory or contractual preemptive rights, resale rights, rights of first refusal, or other similar rights, and will be registered pursuant to Section 12 of the Exchange Act. The Placement Shares, when issued, will conform in all material respects to the description thereof set forth in or incorporated into the Prospectus.

(m) No Consents Required. No consent, approval, authorization, order, registration, or qualification of or with any court or arbitrator or any governmental or regulatory authority is required for the execution, delivery, and performance by the Company of this Agreement, and the issuance and sale by the Company of the Placement Shares as contemplated hereby, except for such consents, approvals, authorizations, orders, and registrations or qualifications as may be required under applicable state securities laws or by the bylaws and rules of the Financial Industry Regulatory Authority (“FINRA”) or the Exchange in connection with the sale of the Placement Shares by Ascendant.

(n) No Preferential Rights. Except as set forth in the Registration Statement and the Prospectus: (i) no person, as such term is defined in Rule 102 of Regulation SX promulgated under the Securities Act (each, a “Person”), has the right, contractual or otherwise, to cause the Company to issue or sell to such Person any Common Stock or shares of any other capital stock or other securities of the Company (other than upon the exercise of options or warrants to purchase Common Stock or upon the exercise of options that may be granted from time to time under the Company’s stock option plans); (ii) no Person has any preemptive rights, rights of first refusal, or any other rights (whether pursuant to a “poison pill” provision or otherwise) to purchase any Common Stock or shares of any other capital stock or other securities of the Company from the Company that have not been duly waived respecting the offering contemplated hereby; (iii) no Person has the right to act as an underwriter or as a financial advisor to the Company in connection with the offer and sale of the Common Stock; and (iv) no Person has the right, contractual or otherwise, to require the Company to register under the Securities Act any Common Stock or shares of any other capital stock or other securities of the Company, or to include any such shares or other securities in the Registration Statement or the offering contemplated thereby, whether as a result of the filing or effectiveness of the Registration Statement or the sale of the Placement Shares as contemplated thereby or otherwise, except for such rights as have been waived on or prior to the date hereof.

(o) Independent Public Accountant. Marcum LLP (the “Accountants”), whose reports on the consolidated financial statements of the Company are filed with the SEC as part of the Company’s most recent Annual Report on Form 10-K and incorporated into the Registration Statement, are and, during the periods covered by its report, were an independent registered public accounting firm within the meaning of the Securities Act and the Public Company Accounting Oversight Board (United States). To the Company’s knowledge, after due inquiry, the Accountants are not in violation of the auditor independence requirements of the Sarbanes-Oxley Act of 2002 (the “Sarbanes-Oxley Act”) respecting the Company.

(p) Enforceability of Agreements. To the Company’s knowledge, all agreements between the Company and third parties expressly referenced in the Prospectus, other than such agreements that have expired by their terms or whose termination is disclosed in documents filed by the Company on EDGAR, are legal, valid, and binding obligations of the Company enforceable in accordance with their respective terms, except to the extent that: (i) enforceability may be limited by bankruptcy, insolvency, reorganization, moratorium, or similar laws affecting creditors’ rights generally and by general equitable principles; and (ii) the indemnification provisions of certain agreements may be limited by federal or state securities laws

or public policy considerations in respect thereof, except for any unenforceability that, individually or in the aggregate, would not reasonably be expected to have a Material Adverse Effect.

(q) No Litigation. Except as set forth in the Registration Statement or the Prospectus: (i) there are no legal, governmental, or regulatory actions, suits, or proceedings pending or, to the Company's knowledge, any legal, governmental, or regulatory investigations to which the Company or a Subsidiary is a party or to which any property of the Company or any of its Subsidiaries is the subject that, individually or in the aggregate, if determined adversely to the Company or any of its Subsidiaries, would reasonably be expected to have a Material Adverse Effect or materially and adversely affect the ability of the Company to perform its obligations under this Agreement; (ii) to the Company's knowledge, no actions, suits, or proceedings are threatened or contemplated by any governmental or regulatory authority or threatened by others that, individually or in the aggregate, if determined adversely to the Company or any of its Subsidiaries, would reasonably be expected to have a Material Adverse Effect; (iii) there are no current or pending legal, governmental, or regulatory, actions, suits, proceedings or, to the Company's knowledge, investigations that are required under the Securities Act to be described in the Prospectus that are not described in the Prospectus including any Incorporated Documents; and (iv) there are no contracts or other documents that are required under the Securities Act to be filed as exhibits to the Registration Statement that are not so filed.

(r) Licenses and Permits. Except as set forth in the Registration Statement or the Prospectus, the Company and each of its Subsidiaries possess or have obtained all licenses, certificates, consents, orders, approvals, permits, and other authorizations issued by, and to the Company's knowledge, have made all declarations and filings with, the appropriate federal, state, local, or foreign governmental or regulatory authorities that are necessary for the ownership or lease of their respective properties or the conduct of their respective businesses as described in the Registration Statement and the Prospectus (the "Permits"), except where the failure to possess, obtain, or make the same would not, individually or in the aggregate, reasonably be expected to have a Material Adverse Effect. Except as disclosed in the Registration Statement or the Prospectus, neither the Company nor its Subsidiaries have received written notice of any proceeding relating to revocation or modification of any such Permit or have any reason to believe that such Permit will not be renewed in the ordinary course, except when the failure to obtain any such renewal would not, individually or in the aggregate, reasonably be expected to have a Material Adverse Effect.

(s) S-3 Eligibility. (i) At the time of filing the Registration Statement; and (ii) if applicable, at the time of the most recent amendment thereto for the purposes of complying with Section 10(a)(3) of the Securities Act (whether such amendment was by post-effective amendment, incorporated report filed pursuant to Section 13 or 15(d) of the Exchange Act, or form of prospectus), the Company met the then-applicable requirements for use of Form S-3 under the Securities Act, including compliance with General Instruction I.B. of Form S-3, up to the Maximum Amount.

(t) No Material Defaults. Except as set forth in the Registration Statement and Prospectus, neither the Company nor any of the Subsidiaries has defaulted on any installment on indebtedness for borrowed money or on any rental on one or more long-term leases, which defaults, individually or in the aggregate, would reasonably be expected to have a Material Adverse Effect. Except as set forth in the Registration Statement and Prospectus, the Company has not filed a report pursuant to Section 13(a) or 15(d) of the Exchange Act since the filing of its last Annual Report on Form 10K, indicating that it: (i) has failed to pay any dividend or sinking fund installment on preferred stock; or (ii) has defaulted on any installment on indebtedness for borrowed money or on any rental on one or more long-term leases, which defaults, individually or in the aggregate, could reasonably be expected to have a Material Adverse Effect.

(u) Certain Market Activities. To the Company's knowledge, neither the Company nor any of the Subsidiaries, nor any of their respective directors, officers, or controlling Persons has taken, directly or indirectly, any action designed, or that has constituted or might reasonably be expected to cause or result in, under the Exchange Act or otherwise, the stabilization or manipulation of the price of any security of the Company to facilitate the sale or resale of the Placement Shares.

(v) Broker-Dealer Relationships. Neither the Company nor any of the Subsidiaries or any related entities: (i) are required to register as a “broker” or “dealer” in accordance with the provisions of the Exchange Act; or (ii) directly or indirectly through one or more intermediaries, control or are a “person associated with a member” or “associated person of a member” (within the meaning set forth in the FINRA rules).

(w) No Reliance. The Company has not relied upon Ascendant or legal counsel for Ascendant for any legal, tax, or accounting advice in connection with the offering and sale of the Placement Shares.

(x) Taxes. The Company and each of its Subsidiaries have filed all federal, state, local, and foreign tax returns that have been required to be filed and paid all taxes shown thereon through the date hereof, to the extent that such taxes have become due and are not being contested in good faith, except when the failure to do so would not reasonably be expected to have a Material Adverse Effect. Except as otherwise disclosed in or contemplated by the Registration Statement or the Prospectus, no tax deficiency has been determined adversely to the Company or any of its Subsidiaries that has had, or would reasonably be expected to have, individually or in the aggregate, a Material Adverse Effect. The Company has no knowledge of any federal, state, or other governmental tax deficiency, penalty, or assessment that has been or might be asserted or threatened against it that could have a Material Adverse Effect.

(y) Title to Real and Personal Property. The Company and each of its Subsidiaries have good and defensible title to all of their real and personal property owned by them, in each case, free and clear of all liens, encumbrances, and defects, except as described in the Registration Statement and Prospectus or that do not materially affect the value of the properties of the Company and its Subsidiaries, considered as one enterprise, and do not interfere in any material respect with the use made and proposed to be made of such properties by the Company and its Subsidiaries, considered as one enterprise; and all of the leases, subleases, and other rights under which the Company or any of its Subsidiaries holds or uses properties described in the Registration Statement and Prospectus are in full force and effect, with such exceptions as would not reasonably be expected to have a Material Adverse Effect, and neither the Company nor any of its Subsidiaries has any notice of any material claim of any sort that has been asserted by anyone adverse to the rights of the Company or its Subsidiaries under any of the leases, subleases, and other rights mentioned above, or affecting or questioning the rights of the Company or any Subsidiary thereof to the continued possession or use of the leased or subleased premises or the premises granted by leases, subleases, and other rights. The Company and each of its Subsidiaries have the consents, easements, rights-of-way, or licenses from any Person as are necessary to enable them to conduct their business in the manner described in the Registration Statement and the Prospectus, subject to such qualifications as may be set forth in the Registration Statement and the Prospectus, and except for the consents, easements, rights-of-way, or licenses the lack of which would not have, individually or in the aggregate, a Material Adverse Effect.

(z) Intellectual Property. Except as set forth in the Registration Statement or the Prospectus, to the Company’s knowledge, the Company and its Subsidiaries own or possess adequate enforceable rights to use all patents, patent applications, trademarks (both registered and unregistered), service marks, trade names, trademark registrations, service mark registrations, copyrights, licenses, and know-how (including trade secrets and other unpatented and/or unpatentable proprietary or confidential information, systems, or procedures) (collectively, the “Intellectual Property”), necessary for the conduct of their respective businesses as conducted as of the date hereof, except to the extent that the failure to own or possess adequate rights to use such Intellectual Property would not, individually or in the aggregate, reasonably be expected to have a Material Adverse Effect; except as disclosed in writing to Ascendant, the Company and any of its Subsidiaries have not received any written notice of any claim of infringement or conflict that asserted Intellectual Property rights of others, which infringement or conflict, if the subject of an unfavorable decision, would result in a Material Adverse Effect; there are no pending, or to the Company’s knowledge, threatened judicial proceedings or interference proceedings against the Company or its Subsidiaries challenging the Company’s or its Subsidiaries’ rights in or to or the validity of the scope of any of the Company’s or its Subsidiaries’ material patents, patent applications, or proprietary information; to the Company’s knowledge, no other entity or individual has any right or claim in any of the Company’s

or its Subsidiaries' owned, material patents, patent applications, or any patent to be issued therefrom by virtue of any contract, license, or other agreement entered into between such entity or individual and the Company or a Subsidiary or by any non-contractual obligation of the Company or a Subsidiary, other than by written licenses granted by the Company or a Subsidiary; the Company and its Subsidiaries have not received any written notice of any claim challenging the rights of the Company or a Subsidiary in or to any Intellectual Property owned, licensed, or optioned by the Company or such Subsidiary that, if the subject of an unfavorable decision, would result in a Material Adverse Effect.

(aa) Environmental Laws. Except as set forth in the Registration Statement or the Prospectus, the Company and its Subsidiaries: (i) are in compliance with any and all applicable federal, state, local, and foreign laws, rules, regulations, decisions, and orders relating to the protection of human health and safety, the environment, hazardous or toxic substances or wastes, pollutants, or contaminants (collectively, "Environmental Laws"); (ii) have received and are in compliance with all permits, licenses, or other approvals required of them under applicable Environmental Laws to conduct their respective businesses as described in the Registration Statement and the Prospectus; (iii) have not received notice of any actual or potential liability for the investigation or remediation of any disposal or release of hazardous or toxic substances or wastes, pollutants, or contaminants, except, in the case of any of clauses (i), (ii), or (iii) above, for any such failure to comply or failure to receive required permits, licenses, other approvals or liability as would not, individually or in the aggregate, reasonably be expected to have a Material Adverse Effect; and (iv) there are no costs or liabilities arising under Environmental Laws respecting the operation of the Company's and each of its Subsidiaries' properties (including any capital or operating expenditures required for clean-up or closure of the properties, compliance with Environmental Laws, any permit, license, or approval or any related legal constraints or operating activities, and any potential liabilities of third parties assumed under contract by the Company or any of its Subsidiaries) that would reasonably be expected, individually or in the aggregate, to have a Material Adverse Effect.

(bb) Disclosure Controls. The Company and each of its Subsidiaries maintain systems of internal accounting controls designed 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 generally accepted accounting principles 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 respecting any differences. The Company is not aware of any material weaknesses in its internal control over financial reporting (other than as set forth in the Prospectus). Since the date of the latest audited financial statements of the Company included in the Prospectus, there has been no change in the Company's internal control over financial reporting that has materially affected, or is reasonably likely to materially affect, the Company's internal control over financial reporting (other than as set forth in the Prospectus). The Company has established disclosure controls and procedures (as defined in Exchange Act Rules 13a15 and 15d15) for the Company and designed such disclosure controls and procedures to ensure that material information relating to the Company and each of its Subsidiaries is made known to the certifying officers by others within those entities, particularly during the period in which the Company's Annual Report on Form 10K or Quarterly Report on Form 10-Q, as the case may be, is being prepared. The Company's certifying officers have evaluated the effectiveness of the Company's controls and procedures as of a date within 90 days prior to the filing date of the Form 10K for the fiscal year most recently ended (such date, the "Evaluation Date"). The Company presented in its Form 10K for the fiscal year most recently ended 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 significant changes in the Company's internal controls (as such term is defined in Item 307(b) of Regulation SK under the Securities Act). To the knowledge of the Company, the Company's "internal controls over financial reporting" and "disclosure controls and procedures" are effective.

(cc) Sarbanes-Oxley. There is and has been no failure on the part of the Company or, to the knowledge of the Company, any of the Company's directors or officers, in their capacities as such, to comply with any applicable provisions of the Sarbanes-Oxley Act and the rules and regulations

promulgated thereunder. Each of the principal executive officer and the principal financial officer of the Company (or each former principal executive officer of the Company and each former principal financial officer of the Company as applicable) has made all certifications required by Sections 302 and 906 of the Sarbanes-Oxley Act respecting all reports, schedules, forms, statements, and other documents required to be filed by it or furnished by it to the SEC. For purposes of the preceding sentence, “principal executive officer” and “principal financial officer” will have the meanings given to such terms in the Sarbanes-Oxley Act.

(dd) Finder’s Fees. Other than as set forth on Schedule 6(dd), neither the Company nor any of the Subsidiaries has incurred any liability for any finder’s fees, brokerage commissions, or similar payments in connection with the transactions herein contemplated, except as may otherwise exist respecting Ascendant pursuant to this Agreement.

(ee) Labor Disputes. Except as disclosed in the Registration Statement or the Prospectus, no labor disturbance by or dispute with employees of the Company or any of its Subsidiaries exists or, to the knowledge of the Company, is threatened that would reasonably be expected to result in a Material Adverse Effect.

(ff) Investment Company Act. Neither the Company nor any of the Subsidiaries is or, after giving effect to the offering and sale of the Placement Shares, will be an “investment company” or an entity “controlled” by an “investment company,” as such terms are defined in the Investment Company Act of 1940, as amended (the “Investment Company Act”).

(gg) Operations. The operations of the Company and its Subsidiaries are and have been conducted at all times in compliance with applicable financial recordkeeping and reporting requirements of the Currency and Foreign Transactions Reporting Act of 1970, as amended, the money laundering statutes of all jurisdictions to which the Company or its Subsidiaries are subject, the rules and regulations thereunder, and any related or similar rules, regulations, or guidelines, issued, administered, or enforced by any governmental agency having jurisdiction over the Company (collectively, the “Money Laundering Laws”), except as would not reasonably be expected to result in a Material Adverse Effect; and no action, suit, or proceeding by or before any court or governmental agency, authority, or body or any arbitrator involving the Company or any of its Subsidiaries respecting the Money Laundering Laws is pending or, to the knowledge of the Company, threatened.

(hh) Off-Balance Sheet Arrangements. There are no transactions, arrangements, and other relationships between and/or among the Company, and/or, to the knowledge of the Company, any of its affiliates and any unconsolidated entity, including any structural finance, special purpose, or limited purpose entity (each, an “Off Balance Sheet Transaction”) that could reasonably be expected to affect materially the Company’s liquidity or the availability of or requirements for its capital resources, including those Off Balance Sheet Transactions described in the SEC’s Statement about Management’s Discussion and Analysis of Financial Conditions and Results of Operations (Release Nos. 338056; 3445321; FR61), required to be described in the Prospectus that have not been described as required.

(jj) Underwriter Agreements. The Company is not a party to any agreement with an agent or underwriter for any other “at-the-market” or continuous equity transaction.

(jj) ERISA. To the knowledge of the Company: (i) each material employee benefit plan, within the meaning of Section 3(3) of the Employee Retirement Income Security Act of 1974, as amended (“ERISA”), that is maintained, administered, or contributed to by the Company or any of its Subsidiaries (other than a Multiemployer Plan, within the meaning of Section 3(37) of ERISA) for employees or former employees of the Company and any of its Subsidiaries has been maintained in compliance with its terms and the requirements of any applicable statutes, orders, rules, and regulations, including ERISA and the Internal Revenue Code of 1986, as amended (the “Code”); (ii) no prohibited transaction, within the meaning of Section 406 of ERISA or Section 4975 of the Code, has occurred respecting any such plan (excluding transactions effected pursuant to a statutory or administrative exemption); and (iii) for each such

plan that is subject to the funding rules of Section 412 of the Code or Section 302 of ERISA, no “accumulated funding deficiency” as defined in Section 412 of the Code has been incurred, whether or not waived, and the fair market value of the assets of each such plan (excluding for these purposes accrued but unpaid contributions) equals or exceeds the present value of all benefits accrued under such plan determined using reasonable actuarial assumptions, other than, in the case of (i), (ii), and (iii) above, as would not reasonably be expected to have a Material Adverse Effect.

(kk) Margin Rules. Neither the issuance, sale, and delivery of the Placement Shares nor the application of the proceeds thereof by the Company as described in the Registration Statement and the Prospectus will violate Regulation T, U, or X of the Board of Governors of the Federal Reserve System or any other regulation of such Board of Governors.

(ll) Insurance. The Company and each of its Subsidiaries carry, or are covered by, insurance in such amounts and covering such risks as the Company and each of its Subsidiaries reasonably believe are adequate for the conduct of their properties and as is customary for companies of similar size engaged in similar businesses in similar industries.

(mm) No Improper Practices. (i) Neither the Company nor, to the Company’s knowledge, the Subsidiaries or to the Company’s knowledge, any of their respective executive officers has, in the past five years, made any unlawful contributions to any candidate for any political office (or failed fully to disclose any contribution in violation of law) or made any contribution or other payment to any official of, or candidate for, any federal, state, municipal, or foreign office or other Person charged with similar public or quasi-public duty in violation of any law or of the character required to be disclosed in the Registration Statement or the Prospectus that is not so described; (ii) no relationship, direct or indirect, exists between or among the Company or, to the Company’s knowledge, any Subsidiary or any affiliate of any of them, on the one hand, and the directors, officers and stockholders of the Company or, to the Company’s knowledge, any Subsidiary, on the other hand, that is required by the Securities Act to be described in the Registration Statement and the Prospectus that is not so described; (iii) no relationship, direct or indirect, exists between or among the Company or any Subsidiary or any affiliate of them, on the one hand, and the directors, officers, stockholders, or directors of the Company or, to the Company’s knowledge, any Subsidiary, on the other hand, that is required to be described in the Registration Statement and the Prospectus that is not so described; (iv) there are no material outstanding loans or advances or material guarantees of indebtedness by the Company or, to the Company’s knowledge, any Subsidiary to or for the benefit of any of their respective officers or directors or any of the members of the families of any of them that is required to be described in the Registration Statement and the Prospectus that is not so described; and (v) the Company has not offered, or caused any placement agent to offer, Common Stock to any Person with the intent to influence unlawfully: (1) a customer or supplier of the Company or any Subsidiary to alter the customer’s or supplier’s level or type of business with the Company or any Subsidiary; or (2) a trade journalist or publication to write or publish favorable information about the Company or any Subsidiary or any of their respective products or services; and (vi) neither the Company nor any Subsidiary nor, to the Company’s knowledge, any employee or agent of the Company or any Subsidiary has made any payment of funds of the Company or any Subsidiary or received or retained any funds in violation of any law, rule, or regulation (including the Foreign Corrupt Practices Act of 1977), which payment, receipt, or retention of funds is of a character required to be disclosed in the Registration Statement or the Prospectus that is not so described.

(nn) Status under the Securities Act. The Company was not and is not an ineligible issuer as defined in Rule 405 under the Securities Act at the times specified in Rules 164 and 433 under the Securities Act in connection with the offering of the Placement Shares.

(oo) No Misstatement or Omission in an Issuer Free Writing Prospectus. Each Issuer Free Writing Prospectus, if any, as of its issue date and as of each Applicable Time (as defined in Section 25 below), did not, does not and will not include any information that conflicted, conflicts or will conflict with the information contained in the Registration Statement or the Prospectus, including any incorporated document deemed to be a part thereof that has not been superseded or modified. The foregoing sentence

does not apply to statements in or omissions from any Issuer Free Writing Prospectus based upon and in conformity with written information furnished to the Company by Ascendant specifically for use therein.

(pp) No Conflicts. None of the execution of this Agreement; the issuance, offering, or sale of the Placement Shares; the consummation of any of the transactions contemplated herein; or the compliance by the Company with the terms and provisions hereof will conflict with or result in a breach of any of the terms and provisions of; constitute or will constitute a default under; or has resulted in or will result in the creation or imposition of any lien, charge, or encumbrance upon any property or assets of the Company pursuant to the terms of any contract or other agreement to which the Company may be bound or to which any of the property or assets of the Company is subject, except: (i) such conflicts, breaches, or defaults as may have been waived; and (ii) such conflicts, breaches, and defaults that would not reasonably be expected to have a Material Adverse Effect; nor will such action result in any violation of the provisions of the organizational or governing documents of the Company or in any material violation of the provisions of any statute or any order, rule, or regulation applicable to the Company or of any court or of any federal, state, or other regulatory authority or other government body having jurisdiction over the Company, except where such violation would not reasonably be expected to have a Material Adverse Effect.

(qq) Regulatory Compliance.

(i) Neither the Company nor any of its Subsidiaries (each, an “Entity”) nor any director, officer, employee, agent, affiliate, or representative of the Entity, is a government, individual, or entity that is owned or controlled by any director, officer, employee, agent, affiliate, or representative of the Entity that is:

(1) the subject of any sanctions administered or enforced by the U.S. Department of Treasury’s Office of Foreign Assets Control, the United Nations Security Council, the European Union, Her Majesty’s Treasury, or other relevant sanctions authority (collectively, “Sanctions”); or

(2) located, organized, or resident in a country or territory that is the subject of Sanctions (including Burma/Myanmar, Cuba, Iran, North Korea, Sudan and Syria).

(ii) The Company, on behalf of each Entity, represents and covenants that it will not, directly or indirectly, use, lend, contribute, or otherwise make available the proceeds of the offering governed by this Agreement to any subsidiary, joint venture partner, or other director, officer, employee, agent, affiliate, or representative of the Entity:

(1) to fund or facilitate any activities or business of or with any Person or in any country or territory that, at the time of such funding or facilitation, is the subject of Sanctions; or

(2) in any other manner that will result in a violation of Sanctions by any Person (including any Person participating in the offering, whether as underwriter, advisor, investor, or otherwise).

(iii) Except as detailed in the Prospectus, for the past five years, the Entity has not knowingly engaged in, is not now knowingly engaged in, and will not engage in, any dealings or transactions with any Person, or in any country or territory, that at the time of the dealing or transaction is or was the subject of Sanctions.

(rr) Stock Transfer Taxes. On each Settlement Date, all stock transfer or other taxes (other than income taxes) that are required to be paid in connection with the sale and transfer of the Placement Shares to be sold hereunder will be, or will have been, fully paid or provided for by the Company and all laws imposing such taxes will be or will have been fully complied with in all material respects.

Any certificate signed by an officer of the Company and delivered to Ascendant or to counsel for Ascendant pursuant to or in connection with this Agreement will be deemed to be a representation and warranty by the Company, as applicable, to Ascendant as to the matters set forth therein.

7. Covenants of the Company. The Company covenants and agrees with Ascendant that:

(a) Registration Statement Amendments. After the date of this Agreement and during any period in which a Prospectus relating to any Placement Shares is required to be delivered by Ascendant under the Securities Act (including in circumstances when such requirement may be satisfied pursuant to Rule 172 under the Securities Act): (i) the Company will notify Ascendant promptly of the time when any subsequent amendment to the Registration Statement, other than documents incorporated by reference, has been filed with the SEC and/or has become effective or any subsequent supplement to the Prospectus has been filed and of any request by the SEC for any amendment or supplement to the Registration Statement or Prospectus or for additional information; (ii) the Company will prepare and file with the SEC, promptly upon Ascendant's reasonable request, any amendments or supplements to the Registration Statement or Prospectus that, in Ascendant's reasonable opinion, may be necessary or advisable in connection with the distribution of the Placement Shares by Ascendant (*provided, however*, that the failure of Ascendant to make such request will not relieve the Company of any obligation or liability hereunder, or affect Ascendant's right to rely on the representations and warranties made by the Company in this Agreement and provided, further, that the only remedy Ascendant will have respecting the failure to make such filing will be to cease making sales under this Agreement until such amendment or supplement is filed); (iii) the Company will not file any amendment or supplement to the Registration Statement or Prospectus relating to the Placement Shares or a security convertible into the Placement Shares unless a copy thereof has been submitted to Ascendant within a reasonable period of time before the filing and Ascendant has not reasonably objected thereto (*provided, however*, that the failure of Ascendant to make such objection will not relieve the Company of any obligation or liability hereunder, or affect Ascendant's right to rely on the representations and warranties made by the Company in this Agreement and provided, further, that the only remedy Ascendant will have respecting the failure by the Company to provide Ascendant with such copy will be to cease making sales under this Agreement) and the Company will furnish to Ascendant at the time of filing thereof a copy of any document that upon filing is deemed to be incorporated by reference into the Registration Statement or Prospectus, except for those documents available via EDGAR; and (iv) the Company will cause each amendment or supplement to the Prospectus to be filed with the SEC as required pursuant to the applicable paragraph of Rule 424(b) of the Securities Act or, in the case of any document to be incorporated therein by reference, to be filed with the SEC as required pursuant to the Exchange Act, within the period prescribed (the determination to file or not file any amendment or supplement with the SEC under this Section 7(a), based on the Company's reasonable opinion or reasonable objections, will be made exclusively by the Company).

(b) Notice of SEC Stop Orders. The Company will advise Ascendant, promptly after it receives notice or obtains knowledge thereof, of the issuance or threatened issuance by the SEC of any stop order suspending the effectiveness of the Registration Statement, of the suspension of the qualification of the Placement Shares for offering or sale in any jurisdiction, or of the initiation or threatening of any proceeding for any such purpose; and it will promptly use its commercially reasonable efforts to prevent the issuance of any stop order or to obtain its withdrawal if such a stop order should be issued. The Company will advise Ascendant promptly after it receives any request by the SEC for any amendments to the Registration Statement or any amendment or supplements to the Prospectus or any Issuer Free Writing Prospectus or for additional information related to the offering of the Placement Shares or for additional information related to the Registration Statement, the Prospectus or any Issuer Free Writing Prospectus.

(c) Delivery of Prospectus; Subsequent Changes. During any period in which a Prospectus relating to the Placement Shares is required to be delivered by Ascendant under the Securities Act respecting the offer and sale of the Placement Shares (including in circumstances where such requirement may be satisfied pursuant to Rule 172 under the Securities Act) (the "Prospectus Delivery Period"), the Company will comply with all requirements imposed upon it by the Securities Act, as from time to time in force, and to file on or before their respective due dates all reports and any definitive proxy or information

statements required to be filed by the Company with the SEC pursuant to Sections 13(a), 13(c), 14, 15(d), or any other provision of or under the Exchange Act. If the Company has omitted any information from the Registration Statement pursuant to Rule 430A under the Securities Act, it will use commercially reasonable efforts to comply with the provisions of and make all requisite filings with the SEC pursuant to said Rule 430A and to notify Ascendant promptly of all such filings. If during the Prospectus Delivery Period any event occurs as a result of which the Prospectus as then amended or supplemented would include an untrue statement of a material fact or omit to state a material fact necessary to make the statements therein, in the light of the circumstances then existing, not misleading, or if during the Prospectus Delivery Period it is necessary to amend or supplement the Registration Statement or Prospectus to comply with the Securities Act, the Company will promptly notify Ascendant to suspend the offering of Placement Shares during such period and the Company will promptly amend or supplement the Registration Statement or Prospectus (at the expense of the Company) so as to correct such statement or omission or effect such compliance; provided, however, that the Company may delay any amendment or supplement, if in the sole discretion of the Company, it is in the Company's best interest to do so.

(d) Listing of Placement Shares. During the Prospectus Delivery Period, the Company will use its reasonable best efforts to cause the Placement Shares to be listed on the Exchange and to qualify the Placement Shares for sale under the securities laws of such jurisdictions as Ascendant reasonably designates and to continue such qualifications in effect so long as required for the distribution of the Placement Shares; provided, however, that the Company will not be required in connection therewith to qualify as a foreign corporation or dealer in securities or file a general consent to service of process in any jurisdiction.

(e) Delivery of Registration Statement and Prospectus. The Company will furnish to Ascendant and its counsel (at the expense of the Company) copies of the Registration Statement, the Prospectus (including all documents incorporated by reference therein) and all amendments and supplements to the Registration Statement or Prospectus that are filed with the SEC during the Prospectus Delivery Period (including all documents filed with the SEC during such period that are deemed to be incorporated by reference therein), in each case as soon as reasonably practicable and in such quantities as Ascendant may from time to time reasonably request and, at Ascendant's request, will also furnish copies of the Prospectus to each exchange or market on which sales of the Placement Shares may be made; provided, however, that the Company will not be required to furnish any document (other than the Prospectus) to Ascendant to the extent such document is available on EDGAR.

(f) Earnings Statement. The Company will make generally available to its security holders as soon as practicable, but in any event not later than 15 months after the end of the Company's current fiscal quarter, an earnings statement covering a 12-month period that satisfies the provisions of Section 11(a) and Rule 158 of the Securities Act. The Company's compliance with the reporting requirements of the Exchange Act shall be deemed to satisfy this Section 7(f).

(g) Use of Proceeds. The Company will use the Net Proceeds as described in the Prospectus in the section entitled "Use of Proceeds."

(h) Notice of Other Sales. Without the prior written notice to Ascendant, the Company will not, directly or indirectly, offer to sell, sell, contract to sell, grant any option to sell or otherwise dispose of any Common Stock (other than the Placement Shares offered pursuant to this Agreement) or securities convertible into or exchangeable for Common Stock, warrants or any rights to purchase or acquire, Common Stock during the period beginning on the date on which any Placement Notice is delivered to Ascendant hereunder and ending on the third Trading Day immediately following the final Settlement Date respecting Placement Shares sold pursuant to such Placement Notice (or, if the Placement Notice has been terminated or suspended prior to the sale of all Placement Shares covered by a Placement Notice, the date of such suspension or termination); and will not directly or indirectly in any other "at-the-market" offering sell, contract to sell, grant any option to sell or otherwise dispose of any Common Stock (other than the Placement Shares offered pursuant to this Agreement) or securities convertible into or exchangeable for Common Stock, warrants or any rights to purchase or acquire, Common Stock prior to the termination of

this Agreement; *provided, however*, that such restrictions will not be required in connection with the Company's issuance or sale of: (1) Common Stock, options to purchase Common Stock or Common Stock issuable upon the exercise of options, pursuant to any employee or director stock option or benefits plan, stock ownership plan or dividend reinvestment plan (but not Common Stock subject to a waiver to exceed plan limits in its dividend reinvestment plan) of the Company whether now in effect or hereafter implemented; (2) Common Stock issuable upon conversion of securities or the exercise of warrants, options or other rights in effect or outstanding, and disclosed in filings by the Company available on EDGAR or otherwise in writing to Ascendant; and (3) Common Stock, or securities convertible into or exercisable for Common Stock, offered and sold in a privately negotiated transaction to vendors, customers, strategic partners or potential strategic partners who are qualified institutional buyers and not more than three Persons that are "accredited investors" within the meaning of such term under paragraph (a)(1), (a)(2), (a)(3), (a)(7), or (a)(8) of Rule 501 under the Securities Act and otherwise conducted in a manner so as not to be integrated with the offering of Common Stock hereby.

(i) Change of Circumstances. The Company will, at any time during the pendency of a Placement Notice, advise Ascendant promptly after it will have received notice or obtained knowledge thereof, of any information or fact that would alter or affect in any material respect any opinion, certificate, letter or other document required to be provided to Ascendant pursuant to this Agreement.

(j) Due Diligence Cooperation. The Company will cooperate with any reasonable due diligence review conducted by Ascendant or its representatives in connection with the transactions contemplated hereby, including providing information and making available documents and senior corporate officers, during regular business hours and at the Company's principal offices or such other location mutually agreed to by the parties, as Ascendant may reasonably request.

(k) Required Filings Relating to Placement of Placement Shares. The Company agrees that on such dates as the Securities Act requires, the Company will: (i) file a prospectus supplement with the SEC under the applicable paragraph of Rule 424(b) under the Securities Act (each and every filing under Rule 424(b), a "Filing Date"), which prospectus supplement will set forth, within the relevant period, the amount of Placement Shares sold through Ascendant, the Net Proceeds to the Company and the compensation payable by the Company to Ascendant respecting such Placement Shares; and (ii) deliver such number of copies of each such prospectus supplement to each exchange or market on which such sales were effected as may be required by the rules or regulations of such exchange or market.

(l) Representation Dates; Certificate. Prior to the delivery of the first Placement Notice and each time the Company:

(i) files the Prospectus relating to the Placement Shares or amends or supplements (other than a prospectus supplement relating solely to an offering of securities other than the Placement Shares) the Registration Statement or the Prospectus relating to the Placement Shares by means of a post-effective amendment, sticker, or supplement but not by means of incorporation of documents by reference into the Registration Statement or the Prospectus relating to the Placement Shares;

(ii) files an annual report on Form 10-K under the Exchange Act (including any Form 10-K/A that contains restated financial statements);

(iii) files a quarterly report on Form 10-Q under the Exchange Act; or

(iv) files a current report on Form 8-K containing amended audited financial information (other than information "furnished" pursuant to Items 2.02 or 7.01 of Form 8-K or to provide disclosure pursuant to Item 8.01 of Form 8-K relating to the reclassification of certain properties as discontinued operations in accordance with Statement of Financial Accounting Standards No. 144) under the Exchange Act (each date of filing of one or more of the documents referred to in clauses (i) through (iv) will be a "Representation Date");

the Company will furnish Ascendant (but in the case of clause (iv) above only if Ascendant reasonably determines that the information contained in such Form 8K is material) with a certificate, in the form attached hereto as Exhibit A. The requirement to provide a certificate under this Section 7(l) will be waived for any Representation Date occurring at a time at which no Placement Notice is pending, which waiver will continue until the earlier to occur of the date the Company delivers a Placement Notice hereunder (which for such calendar quarter will be considered a Representation Date) and the next occurring Representation Date; *provided, however*, that such waiver will not apply for any Representation Date on which the Company files its annual report on Form 10K. Notwithstanding the foregoing, if the Company subsequently decides to sell Placement Shares following a Representation Date when the Company relied on such waiver and did not provide Ascendant with a certificate under this Section 7(l), then before the Company delivers the Placement Notice or Ascendant sells any Placement Shares, the Company will provide Ascendant with a certificate, in the form attached hereto as Exhibit A, dated the date of the Placement Notice.

(m) Legal Opinion. Prior to the delivery of the first Placement Notice and within five Trading Days of each Representation Date for which the Company is obligated to deliver a certificate in the form attached hereto as Exhibit A for which no waiver is applicable, the Company will cause to be furnished to Ascendant written opinions of Winstead PC or other counsel reasonably satisfactory to Ascendant (“Company Counsel”), in form and substance reasonably satisfactory to Ascendant and its counsel; *provided, however*, the Company will be required to furnish to Ascendant no more than one opinion hereunder per calendar quarter *provided*, further, that in lieu of such opinions for subsequent periodic filings under the Exchange Act, Company Counsel may furnish Ascendant with a letter (a “Reliance Letter”) to the effect that Ascendant may rely on a prior opinion delivered under this Section 7(m) to the same extent as if it were dated the date of such letter (except that statements in such prior opinion will be deemed to relate to the Registration Statement and the Prospectus as amended or supplemented as of the date of the Reliance Letter).

(n) Comfort Letters. Prior to the delivery of the first Placement Notice and within five Trading Days of each Representation Date, other than pursuant to Section 7(l)(iii), for which the Company is obligated to deliver a certificate in the form attached hereto as Exhibit A for which no waiver is applicable, the Company will cause its Accountants to furnish Ascendant letters (the “Comfort Letters”), dated the date the Comfort Letters are delivered, which will meet the requirements set forth in this Section 7(n). The Comfort Letter from each of the Accountants will be in a form and substance reasonably satisfactory to Ascendant: (i) confirming that they are an independent public accounting firm within the meaning of the Securities Act and the PCAOB; (ii) stating, as of such date, the conclusions and findings of such firm respecting the financial information and other matters ordinarily covered by accountants’ “comfort letters” to underwriters in connection with registered public offerings (the first such letter, the “Initial Comfort Letter”); and (iii) updating the Initial Comfort Letter with any information that would have been included in the Initial Comfort Letter had it been given on such date and modified as necessary to relate to the Registration Statement and the Prospectus, as amended and supplemented to the date of such letter.

(o) Market Activities. The Company will not, directly or indirectly: (i) take any action designed to cause or result in, or that constitutes or might reasonably be expected to constitute, the stabilization or manipulation of the price of any security of the Company to facilitate the sale or resale of Common Stock; or (ii) sell, bid for, or purchase Common Stock in violation of Regulation M, or pay anyone any compensation for soliciting purchases of the Placement Shares other than Ascendant.

(p) Investment Company Act. The Company will conduct its affairs in such a manner so as to reasonably ensure that neither it nor any of its Subsidiaries will be or become, at any time prior to the termination of this Agreement, an “investment company,” as such term is defined in the Investment Company Act.

(q) No Offer to Sell. Other than an Issuer Free Writing Prospectus approved in advance by the Company and Ascendant in its capacity as agent hereunder, neither Ascendant nor the Company

(including its agents and representatives, other than Ascendant in its capacity as such) will make, use, prepare, authorize, approve, or refer to any written communication (as defined in Rule 405 under the Securities Act), required to be filed with the SEC, that constitutes an offer to sell or solicitation of an offer to buy Placement Shares hereunder.

(r) Sarbanes-Oxley Act. The Company and the Subsidiaries will maintain and keep accurate books and records reflecting their assets and maintain internal accounting controls in a manner designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles and including those policies and procedures that: (i) pertain to the maintenance of records that in reasonable detail accurately and fairly reflect the transactions and dispositions of the assets of the Company; (ii) provide reasonable assurance that transactions are recorded as necessary to permit the preparation of the Company's consolidated financial statements in accordance with generally accepted accounting principles; (iii) that receipts and expenditures of the Company are being made only in accordance with management's and the Company's directors' authorization; and (iv) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of the Company's assets that could have a material effect on its financial statements. The Company and the Subsidiaries will use commercially reasonable efforts to maintain such controls and other procedures, including those required by Sections 302 and 906 of the Sarbanes-Oxley Act, and the applicable regulations thereunder that are designed to ensure that information required to be disclosed by the Company in the reports that it files or submits under the Exchange Act is recorded, processed, summarized and reported, within the periods specified in the SEC's rules and forms, including controls and procedures designed to ensure that information required to be disclosed by the Company in the reports that it files or submits under the Exchange Act is accumulated and communicated to the Company's management, including its principal executive officer and principal financial officer, or individuals performing similar functions, as appropriate to allow timely decisions regarding required disclosure and to ensure that material information relating to the Company or the Subsidiaries is made known to them by others within those entities, particularly during the period in which such periodic reports are being prepared.

8. Representations and Covenants of Ascendant. Ascendant represents and warrants that it is duly registered as a broker-dealer under FINRA, the Exchange Act, and the applicable statutes and regulations of each state in which the Placement Shares will be offered and sold, except such states in which Ascendant is exempt from registration or such registration is not otherwise required. Ascendant will continue, for the term of this Agreement, to be duly registered as a broker-dealer under FINRA, the Exchange Act, and the applicable statutes and regulations of each state in which the Placement Shares will be offered and sold, except such states in which Ascendant is exempt from registration or such registration is not otherwise required, during the term of this Agreement. Ascendant will comply with all applicable law and regulations in connection with the Placement Shares, including Regulation M.

9. Payment of Expenses. The Company will pay all expenses incident to the performance of its obligations under this Agreement, including: (i) the preparation, filing, including any fees required by the SEC, and printing of the Registration Statement (including financial statements and exhibits) as originally filed and of each amendment and supplement thereto and each Free Writing Prospectus, in such number as Ascendant will reasonably deem necessary; (ii) the printing and delivery to Ascendant of this Agreement and such other documents as may be required in connection with the offering, purchase, sale, issuance, or delivery of the Placement Shares; (iii) the preparation, issuance, and delivery of the certificates, if any, for the Placement Shares to Ascendant, including any stock or other transfer taxes and any capital duties, stamp duties, or other duties or taxes payable upon the sale, issuance, or delivery of the Placement Shares to Ascendant; (iv) the fees and disbursements of the counsel, accountants, and other advisors to the Company; (v) the fees and expenses of the transfer agent and registrar for the Common Stock; (vi) the filing fees incident to any review by FINRA of the terms of the sale of the Placement Shares; (vii) the fees and expenses incurred in connection with the listing of the Placement Shares on the Exchange; (viii) usual and customary transaction, ticket, and similar charges; (ix) \$30,000 of the fees and expenses of Ascendant's legal counsel initially, of which \$10,000 was previously paid, and thereafter, the reasonable fees and expenses of Ascendant's legal counsel over \$30,000 incurred in connection with quarterly and annual bring-downs

after closing and during the Commitment Period; the Company shall pay retainers to Ascendant's counsel at the reasonable request of Ascendant to cover future fees and expenses.

10. Conditions to Ascendant's Obligations. The obligations of Ascendant hereunder respecting a Placement will be subject to the continuing accuracy and completeness of the representations and warranties made by the Company herein, to the due performance by the Company of its obligations hereunder, to the completion by Ascendant of a due diligence review satisfactory to it in its reasonable judgment, and to the continuing satisfaction (or waiver by Ascendant in its sole discretion) of the following additional conditions:

(a) Registration Statement Effective. The Company shall at all times maintain in effect the Registration Statement, which will be available for the sale of all Placement Shares contemplated to be issued by any Placement Notice.

(b) No Material Notices. None of the following events will have occurred and be continuing: (i) receipt by the Company of any request for additional information from the SEC or any other federal or state governmental authority during the period of effectiveness of the Registration Statement the response to which would require any post-effective amendments or supplements to the Registration Statement or the Prospectus; (ii) the issuance by the SEC or any other federal or state governmental authority of any stop order suspending the effectiveness of the Registration Statement or the initiation of any proceedings for that purpose; (iii) receipt by the Company of any notification respecting the suspension of the qualification or exemption from qualification of any of the Placement Shares for sale in any jurisdiction or the initiation or threatening of any proceeding for such purpose; or (iv) the occurrence of any event that requires the making of any changes in the Registration Statement, the Prospectus or documents so that, in the case of the Registration Statement, it will not contain any materially untrue statement of a material fact or omit to state any material fact required to be stated therein or necessary to make the statements therein not misleading and, that in the case of the Prospectus, it will not contain any materially untrue statement of a material fact or omit to state any material fact required to be stated therein or necessary to make the statements therein, in the light of the circumstances under which they were made, not misleading.

(c) No Misstatement or Material Omission. Ascendant will not have advised the Company that the Registration Statement or Prospectus, or any amendment or supplement thereto, contains an untrue statement of fact that in Ascendant's reasonable opinion is material, or omits to state a fact that in Ascendant's opinion is material and is required to be stated therein or is necessary to make the statements therein not misleading.

(d) Material Changes. Except as contemplated in the Prospectus, or disclosed in the Company's reports filed with the SEC, there will not have been any material adverse change, on a consolidated basis, in the authorized capital stock of the Company or any Material Adverse Effect, or any development that could reasonably be expected to cause a Material Adverse Effect.

(e) Legal Opinion. Ascendant will have received the opinions of Company Counsel required to be delivered pursuant Section 7(m) on or before the date on which such delivery of such opinions is required pursuant to Section 7(m).

(f) Comfort Letters. Ascendant will have received the Comfort Letters required to be delivered pursuant Section 7(n) on or before the date on which such delivery of such letter is required pursuant to Section 7(n).

(g) Representation Certificate. Ascendant will have received the certificate required to be delivered pursuant to Section 7(l) on or before the date on which delivery of such certificate is required pursuant to Section 7(l).

(h) No Suspension. Trading in the Common Stock will not have been suspended on the Exchange and the Common Stock will not have been delisted from the Exchange.

(i) Other Materials. On each date on which the Company is required to deliver a certificate pursuant to Section 7(l), the Company will have furnished to Ascendant such appropriate further information, certificates, and documents as Ascendant may reasonably request and that are usually and customarily furnished by an issuer of securities in connection with a securities offering. All such opinions, certificates, letters, and other documents will be in compliance with the provisions hereof. The Company will furnish Ascendant with such conformed copies of such opinions, certificates, letters, and other documents as Ascendant will reasonably request.

(j) Securities Act Filings Made. All filings with the SEC required by Rule 424 under the Securities Act to have been filed prior to the issuance of any Placement Notice hereunder will have been made within the applicable period prescribed for such filing by Rule 424.

(k) Approval for Listing. The Placement Shares will either have been approved for listing on the Exchange, subject only to notice of issuance, or the Company will have filed an application for listing of the Placement Shares on the Exchange at, or prior to, the issuance of any Placement Notice.

(l) No Termination Event. No event will have occurred that would permit Ascendant to terminate this Agreement pursuant to Section 13(a).

11. Indemnification and Contribution.

(a) Company Indemnification. The Company agrees to indemnify and hold harmless Ascendant, its partners, members, directors, officers, employees, and agents and each Person, if any, who controls Ascendant within the meaning of Section 15 of the Securities Act or Section 20 of the Exchange Act as follows:

(i) against any and all loss, liability, claim, damage, and expense whatsoever, as incurred, joint or several, arising out of or based upon any untrue statement or alleged untrue statement of a material fact contained in the Registration Statement (or any amendment thereto), or the omission or alleged omission therefrom of a material fact required to be stated therein or necessary to make the statements therein not misleading, or arising out of any untrue statement or alleged untrue statement of a material fact included in any related Issuer Free Writing Prospectus or the Prospectus (or any amendment or supplement thereto), or the omission or alleged omission therefrom of a material fact necessary in order to make the statements therein, in the light of the circumstances under which they were made, not misleading;

(ii) against any and all loss, liability, claim, damage and expense whatsoever, as incurred, joint or several, to the extent of the aggregate amount paid in settlement of any litigation, or any investigation or proceeding by any governmental agency or body, commenced or threatened, or of any claim whatsoever based upon any such untrue statement or omission, or any such alleged untrue statement or omission; provided that any such settlement is effected with the written consent of the Company, which consent will not unreasonably be delayed or withheld; and

(iii) against any and all expense whatsoever, as incurred (including the reasonable fees and disbursements of counsel), reasonably incurred in investigating, preparing or defending against any litigation, or any investigation or proceeding by any governmental agency or body, commenced or threatened, or any claim whatsoever based upon any such untrue statement or omission, or any such alleged untrue statement or omission, to the extent that any such expense is not paid under (i) or (ii) above;

provided, however, that this indemnity agreement will not apply to any loss, liability, claim, damage, or expense to the extent arising out of any untrue statement or omission or alleged untrue statement or omission made in reliance upon and in conformity with written information furnished to the Company by Ascendant expressly for use in the Registration Statement (or any amendment thereto), or in any related Issuer Free Writing Prospectus or the Prospectus (or any amendment or supplement thereto).

(b) Ascendant Indemnification. Ascendant agrees to indemnify and hold harmless the Company and its directors and each officer of the Company who signed the Registration Statement, and each Person, if any, that: (i) controls the Company within the meaning of Section 15 of the Securities Act or Section 20 of the Exchange Act; or (ii) is controlled by or is under common control with the Company against any and all loss, liability, claim, damage, and expense described in the indemnity contained in Section 11(c), as incurred, but only respecting untrue statements or omissions, or alleged untrue statements or omissions, made in the Registration Statement (or any amendments thereto), the Prospectus (or any amendment or supplement thereto) or any Free Writing Prospectus in reliance upon and in conformity with information furnished to the Company in writing by Ascendant expressly for use therein.

(c) Procedure.

(i) Any party that proposes to assert the right to be indemnified under this Section 11 will, promptly after receipt of notice of commencement of any action against such party in respect of which a claim is to be made against an indemnifying party or parties under this Section 11, notify each such indemnifying party of the commencement of such action, enclosing a copy of all papers served, but the omission so to notify such indemnifying party will not relieve the indemnifying party from: (1) any liability that it might have to any indemnified party otherwise than under this Section 11; and (2) any liability that it may have to any indemnified party under the foregoing provision of this Section 11 unless, and only to the extent that, such omission results in the forfeiture or material impairment of substantive rights or defenses by the indemnifying party.

(ii) If any such action is brought against any indemnified party and it notifies the indemnifying party of its commencement, the indemnifying party will be entitled to participate in and, to the extent that it elects by delivering written notice to the indemnified party promptly after receiving notice of the commencement of the action from the indemnified party, jointly with any other indemnifying party similarly notified, to assume the defense of the action, with counsel reasonably satisfactory to the indemnified party, and after notice from the indemnifying party to the indemnified party of its election to assume the defense, the indemnifying party will not be liable to the indemnified party for any legal or other expenses except as provided below and except for the reasonable costs of investigation subsequently incurred by the indemnified party in connection with the defense.

(iii) The indemnified party will have the right to employ its own counsel in any such action, but the fees, expenses and other charges of such counsel will be at the expense of such indemnified party unless: (1) the employment of counsel by the indemnified party has been authorized in writing by the indemnifying party; (2) the indemnified party has reasonably concluded (based on advice of counsel) that there may be legal defenses available to it or other indemnified parties that are different from or in addition to those available to the indemnifying party; (3) a conflict or potential conflict exists (based on advice of counsel to the indemnified party) between the indemnified party and the indemnifying party (in which case the indemnifying party will not have the right to direct the defense of such action on behalf of the indemnified party); or (4) the indemnifying party has not in fact employed counsel to assume the defense of such action within a reasonable time after receiving notice of the commencement of the action, in each of which cases the reasonable fees, disbursements and other charges of counsel will be at the expense of the indemnifying party or parties.

(iv) It is understood that the indemnifying party or parties will not, in connection with any proceeding or related proceedings in the same jurisdiction, be liable for the reasonable fees, disbursements and other charges of more than one separate firm admitted to practice in such jurisdiction at any one time for all such indemnified party or parties. All such fees, disbursements, and other charges will be reimbursed by the indemnifying party promptly after the indemnifying party receives a written invoice relating to fees, disbursements and other charges in reasonable detail.

(v) An indemnifying party will not, in any event, be liable for any settlement of any action or claim effected without its written consent. No indemnifying party will, without the prior written consent of each indemnified party, settle or compromise or consent to the entry of any judgment in any pending or threatened claim, action, or proceeding relating to the matters contemplated by this Section 11 (whether or not any indemnified party is a party thereto), unless such settlement, compromise or consent: (i) includes an unconditional release of each indemnified party from all liability arising out of such litigation, investigation, proceeding, or claim; and (ii) does not include a statement as to or an admission of fault, culpability, or a failure to act by or on behalf of any indemnified party.

(d) Contribution. In order to provide for just and equitable contribution in circumstances in which the indemnification provided for in the foregoing paragraphs of this Section 11 is applicable in accordance with its terms but for any reason is held to be unavailable from the Company or Ascendant, the Company and Ascendant will contribute to the total losses, claims, liabilities, expenses, and damages (including any investigative, legal and other expenses reasonably incurred in connection with, and any amount paid in settlement of, any action, suit or proceeding or any claim asserted, but after deducting any contribution received by the Company from Persons other than Ascendant, such as Persons that control the Company within the meaning of the Securities Act, officers of the Company who signed the Registration Statement and directors of the Company, who also may be liable for contribution) to which the Company and Ascendant may be subject in such proportion as is appropriate to reflect the relative benefits received by the Company, on the one hand, and Ascendant, on the other hand. The relative benefits received by the Company, on the one hand, and Ascendant, on the other hand, will be deemed to be in the same proportion as the total net proceeds from the sale of the Placement Shares (before deducting expenses) received by the Company bear to the total compensation received by Ascendant (before deducting expenses) from the sale of Placement Shares on behalf of the Company. If, but only if, the allocation provided by the foregoing sentence is not permitted by applicable law, the allocation of contribution will be made in such proportion as is appropriate to reflect not only the relative benefits referred to in the foregoing sentence but also the relative fault of the Company, on the one hand, and Ascendant, on the other hand, respecting the statements or omission that resulted in such loss, claim, liability, expense or damage, or action in respect thereof, as well as any other relevant equitable considerations respecting such offering. Such relative fault will be determined by reference to, among other things, whether the untrue or alleged untrue statement of a material fact or omission or alleged omission to state a material fact relates to information supplied by the Company or Ascendant, the intent of the parties and their relative knowledge, access to information and opportunity to correct or prevent such statement or omission. The Company and Ascendant agree that it would not be just and equitable if contributions pursuant to this Section 11(d) were to be determined by pro rata allocation or by any other method of allocation that does not take into account the equitable considerations referred to herein. The amount paid or payable by an indemnified party as a result of the loss, claim, liability, expense, or damage, or action in respect thereof, referred to above in this Section 11(d) will be deemed to include, for the purpose of this Section 11(d), any legal or other expenses reasonably incurred by such indemnified party in connection with investigating or defending any such action or claim to the extent consistent with Section 11(c) hereof. Notwithstanding the foregoing provisions of this Section 11(d), Ascendant will not be required to contribute any amount in excess of the commissions received by it under this Agreement and no Person found guilty of fraudulent misrepresentation (within the meaning of Section 11(f) of the Securities Act) will be entitled to contribution from any Person who was not guilty of such fraudulent misrepresentation. For purposes of this Section 11(d), any Person who controls a party to this Agreement within the meaning of the Securities Act, and any officers, directors, partners, employees or agents of Ascendant, will have the same rights to contribution as that party, and each officer and director of the Company who signed the Registration Statement will have the same rights to contribution as the Company, subject in each case to the provisions hereof. Any party entitled to contribution, promptly after receipt of notice of commencement of any action against such party in respect of which a claim for contribution may be made under this Section 11(d), will notify any such party or parties from whom contribution may be sought, but the omission to so notify will not relieve that party or parties from whom contribution may be sought from any other obligation it or they may have under this Section 11(d) except to the extent that the failure to so notify such other party materially prejudiced the substantive rights or defenses of the party from whom contribution is sought. Except for a settlement entered into pursuant to the

last sentence of Section 11(c) hereof, no party will be liable for contribution respecting any action or claim settled without its written consent if such consent is required pursuant to Section 11(c) hereof.

12. Representations and Agreements to Survive Delivery. The indemnity and contribution agreements contained in Section 11 of this Agreement and all representations and warranties of the Company herein or in certificates delivered pursuant hereto will survive, as of their respective dates, regardless of: (a) any investigation made by or on behalf of Ascendant, any controlling Persons, or the Company (or any of their respective officers, directors, or controlling Persons); (b) delivery and acceptance of the Placement Shares and payment therefor; or (c) any termination of this Agreement.

13. Termination.

(a) Ascendant may terminate this Agreement, by notice to the Company, as hereinafter specified at any time: (i) if there has been, since the time of execution of this Agreement or since the date as of which information is given in the Prospectus, any Material Adverse Effect, or any development has occurred that is reasonably likely to have a Material Adverse Effect or in the sole judgment of Ascendant makes it impractical or inadvisable to market the Placement Shares or to enforce contracts for the sale of the Placement Shares; (ii) if there has occurred any material adverse change in the financial markets in the United States or the international financial markets, any outbreak of hostilities or escalation thereof or other calamity or crisis or any change or development involving a prospective change in national or international political, financial or economic conditions, in each case the effect of which is such as to make it, in the judgment of Ascendant, impracticable or inadvisable to market the Placement Shares or to enforce contracts for the sale of the Placement Shares; (iii) if trading in the Common Stock has been suspended or limited by the SEC or the Exchange, or if trading generally on the Exchange has been suspended or limited, or minimum prices for trading have been fixed on the Exchange; (iv) if any suspension of trading of any securities of the Company on any exchange or in the over-the-counter market will have occurred and be continuing; (v) if a major disruption of securities settlements or clearance services in the United States will have occurred and be continuing; or (vi) if a banking moratorium has been declared by either U.S. Federal or New York authorities. Any such termination will be without liability of any party to any other party except that the provisions of Section 9 (Expenses), Section 11 (Indemnification), Section 12 (Survival of Representations), Section 18 (Applicable Law; Waiver of Jury Trial), and Section 19 (Consent to Jurisdiction) hereof will remain in full force and effect notwithstanding such termination. If Ascendant elects to terminate this Agreement as provided in this Section 13(a), Ascendant will provide the required notice as specified in Section 14 (Notices).

(b) (i) The Company will have the right, by giving 10 days' notice as hereinafter specified to terminate this Agreement in its sole discretion at any time after the date of this Agreement.

(ii) If Ascendant declines any Placement Notice pursuant to Section 2(a) of this Agreement, then the Company will have the right to terminate this Agreement by giving written notice of termination to Ascendant. Any such termination will be effective immediately upon a delivery of a termination notice by the Company to Ascendant.

Any termination pursuant to Section 13(b) will be without liability of any party to any other party except that the provisions of Section 9, Section 11, Section 12, Section 18, and Section 19 hereof will remain in full force and effect notwithstanding such termination.

(c) Ascendant will have the right, by giving 10 days' notice as hereinafter specified to terminate this Agreement in its sole discretion at any time after the date of this Agreement. Any such termination will be without liability of any party to any other party except that the provisions of Section 9, Section 11, Section 12, Section 18, and Section 19 hereof will remain in full force and effect notwithstanding such termination.

(d) Unless earlier terminated pursuant to this Section 13, this Agreement will automatically terminate upon the earlier to occur of: (i) the one-year anniversary of the date hereof; or (ii) the issuance and sale of all of the Placement Shares through Ascendant on the terms and subject to the conditions set forth herein, except that, in either such case, the provisions of Section 9, Section 11, Section 12, Section 18 and Section 19 hereof will remain in full force and effect notwithstanding such termination.

(e) This Agreement will remain in full force and effect unless terminated pursuant to Sections 13(a), (b), (c), or (d) above or otherwise by mutual agreement of the parties. Upon termination of this Agreement, the Company will not have any liability to Ascendant for any discount, commission, or other compensation respecting any Placement Shares not otherwise sold by Ascendant under this Agreement.

(f) Any termination of this Agreement will be effective on the date specified in such notice of termination; *provided, however*, that such termination will not be effective until the close of business on the date of receipt of such notice by Ascendant or the Company, as the case may be. If such termination will occur prior to the Settlement Date for any sale of Placement Shares, such Placement Shares will settle in accordance with the provisions of this Agreement.

14. Notices.

(a) All notices or other communications required or permitted to be given by any party to any other party pursuant to the terms of this Agreement will be in writing, unless otherwise specified:

and if sent to Ascendant, will be delivered to:

Ascendant Capital Markets, LLC
Attention: Managing Partner
18881 Von Karman Avenue, 16th Floor
Irvine, CA 92612

with a copy to:

Michael Best & Friedrich LLP
Attention: Betsy T. Voter
170 South Main Street, Suite 1000
Salt Lake City, UT 84101

and if sent to the Company, will be delivered to:

Phunware, Inc.
Attn: Matt Aune
7800 Shoal Creek Blvd, Suite 230-S
Austin, TX 78757

with a copy to:

Winstead PC
Attn: Alex R. Allemann
401 Congress Ave., Suite 2100
Austin, Texas 78701

(b) Each such notice or other communication will be deemed given: (i) when delivered personally on or before 4:30 p.m., New York City time, on a Business Day or, if such day is not a Business Day, on the next succeeding Business Day; or (ii) on the next Business Day after timely delivery to a

nationally recognized overnight courier. For purposes of this Agreement, "Business Day" will mean any day on which the Exchange and commercial banks in the City of New York are open for business.

(c) An electronic communication ("Electronic Notice") will be deemed written notice for purposes of this Section 14 if sent to the electronic mail address specified by the receiving party under separate cover. Electronic Notice will be deemed received at the time the party sending Electronic Notice receives confirmation of receipt by the receiving party. Any party receiving Electronic Notice may request and will be entitled to receive the notice on paper, in a nonelectronic form ("Nonelectronic Notice"), which will be sent to the requesting party within 10 days of receipt of the written request for Nonelectronic Notice.

(d) Each party to this Agreement may change such address for notices by sending to the parties to this Agreement written notice of a new address for such purpose.

15. Successors and Assigns. This Agreement will inure to the benefit of and be binding upon the Company and Ascendant and their respective successors and the affiliates, controlling persons, partners, members, officers, directors, employees, and agents referred to in Section 11 hereof. References to any of the parties contained in this Agreement will be deemed to include the successors and permitted assigns of such party. Nothing in this Agreement, express or implied, is intended to confer upon any party other than the parties hereto or their respective successors and permitted assigns any rights, remedies, obligations or liabilities under or by reason of this Agreement, except as expressly provided in this Agreement. Neither party may assign its rights or obligations under this Agreement without the prior written consent of the other party.

16. Adjustments for Stock Splits. The parties acknowledge and agree that all share-related numbers contained in this Agreement will be adjusted to take into account any share consolidation, stock split, stock dividend, corporate domestication or similar event effected respecting the Placement Shares.

17. Entire Agreement; Amendment; Severability. This Agreement (including all schedules and exhibits attached hereto and Placement Notices issued pursuant hereto), by and between the Company and Ascendant constitutes the entire agreement of the parties respecting the subject matter hereof and thereof and supersedes all other prior and contemporaneous agreements and undertakings, both written and oral, among the parties hereto with regard to the subject matter hereof and thereof. Neither this Agreement nor any term hereof may be amended except pursuant to a written instrument executed by the Company and Ascendant. In the event that any one or more of the provisions contained herein, or the application thereof in any circumstance, is held invalid, illegal, or unenforceable as written by a court of competent jurisdiction, then such provision will be given full force and effect to the fullest possible extent that it is valid, legal, and enforceable, and the remainder of the terms and provisions herein will be construed as if such invalid, illegal, or unenforceable term or provision was not contained herein, but only to the extent that giving effect to such provision and the remainder of the terms and provisions hereof will be in accordance with the intent of the parties as reflected in this Agreement.

18. **APPLICABLE LAW; WAIVER OF JURY TRIAL. THIS AGREEMENT WILL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW YORK WITHOUT REGARD TO THE PRINCIPLES OF CONFLICTS OF LAWS. SPECIFIED TIMES OF DAY REFER TO NEW YORK CITY TIME. THE COMPANY HEREBY IRREVOCABLY WAIVES, TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, ANY AND ALL RIGHT TO TRIAL BY JURY IN ANY LEGAL PROCEEDING ARISING OUT OF OR RELATING TO THIS AGREEMENT OR THE TRANSACTIONS CONTEMPLATED HEREBY.**

19. **CONSENT TO JURISDICTION. EACH PARTY HEREBY IRREVOCABLY SUBMITS TO THE NON-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 WITH ANY TRANSACTION CONTEMPLATED HEREBY, 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. EACH PARTY HEREBY IRREVOCABLY WAIVES PERSONAL SERVICE OF PROCESS AND CONSENTS TO PROCESS BEING SERVED IN ANY SUCH SUIT, ACTION OR PROCEEDING BY MAILING A COPY THEREOF (CERTIFIED OR REGISTERED MAIL, RETURN RECEIPT REQUESTED) TO SUCH PARTY AT THE ADDRESS IN EFFECT FOR NOTICES TO IT UNDER THIS AGREEMENT AND AGREES THAT SUCH SERVICE WILL CONSTITUTE GOOD AND SUFFICIENT SERVICE OF PROCESS AND NOTICE THEREOF. NOTHING CONTAINED HEREIN WILL BE DEEMED TO LIMIT IN ANY WAY ANY RIGHT TO SERVE PROCESS IN ANY MANNER PERMITTED BY LAW.

20. Use of Information. Ascendant may not use any information gained in connection with this Agreement and the transactions contemplated by this Agreement, including due diligence, to advise any party respecting transactions not expressly approved in writing by the Company. Ascendant acknowledges that any information gained in connection with this Agreement and the transactions contemplated by this Agreement are subject to confidentiality and other restrictions pursuant to the Confidentiality Agreement and agrees to abide by the terms of the Confidentiality Agreement.

21. Counterparts. This Agreement may be executed in two or more counterparts, each of which will be deemed an original, but all of which together will constitute one and the same instrument. Delivery of an executed Agreement by one party to the other may be made by facsimile transmission.

22. Effect of Headings. The section and exhibit headings herein are for convenience only and will not affect the construction hereof.

23. Permitted Free Writing Prospectuses. The Company represents, warrants, and agrees that, unless it obtains the prior consent of Ascendant, and Ascendant represents, warrants and agrees that, unless it obtains the prior consent of the Company, it has not made and will not make any offer relating to the Placement Shares that would constitute an Issuer Free Writing Prospectus, or that would otherwise constitute a "free writing prospectus," as defined in Rule 405, required to be filed with the SEC. Any such free writing prospectus consented to by Ascendant or by the Company, as the case may be, is hereinafter referred to as a "Permitted Free Writing Prospectus." The Company represents and warrants that it has treated and agrees that it will treat each Permitted Free Writing Prospectus as an "issuer free writing prospectus," as defined in Rule 433, and has complied and will comply with the requirements of Rule 433 applicable to any Permitted Free Writing Prospectus, including timely filing with the SEC where required, legending, and recordkeeping. For the purposes of clarity, the parties hereto agree that all free writing prospectuses, if any, listed in Exhibit B hereto are Permitted Free Writing Prospectuses.

24. Absence of Fiduciary Relationship. The Company acknowledges and agrees that:

(a) Ascendant is acting solely as agent in connection with the public offering of the Placement Shares and in connection with each transaction contemplated by this Agreement and the process leading to such transactions, and no fiduciary or advisory relationship between the Company or any of its respective affiliates, stockholders (or other equity holders), creditors or employees or any other party, on the one hand, and Ascendant, on the other hand, has been or will be created in respect of any of the transactions contemplated by this Agreement, irrespective of whether or not Ascendant has advised or is advising the Company on other matters, and Ascendant has no obligation to the Company respecting the transactions contemplated by this Agreement except the obligations expressly set forth in this Agreement;

(b) it is capable of evaluating and understanding, and understands and accepts, the terms, risks and conditions of the transactions contemplated by this Agreement;

(c) Ascendant has not provided any legal, accounting, regulatory or tax advice respecting the transactions contemplated by this Agreement and it has consulted its own legal, accounting, regulatory and tax advisors to the extent it has deemed appropriate;

(d) it is aware that Ascendant and its affiliates are engaged in a broad range of transactions that may involve interests that differ from those of the Company and Ascendant has no obligation to disclose such interests and transactions to the Company by virtue of any fiduciary, advisory or agency relationship or otherwise; provided that Ascendant hereby agrees not to engage in any such transaction that would cause its interests to be in direct conflict with the best interests of the Company; and

(e) it waives, to the fullest extent permitted by law, any claims it may have against Ascendant for breach of fiduciary duty or alleged breach of fiduciary duty in connection with the sale of Placement Shares under this Agreement and agrees that Ascendant will not have any liability (whether direct or indirect, in contract, tort or otherwise) to it in respect of such a fiduciary duty claim or to any Person asserting a fiduciary duty claim on its behalf or in right of it or the Company, employees or creditors of Company, other than in respect of Ascendant's obligations under this Agreement and to keep information provided by the Company to Ascendant and Ascendant's counsel confidential to the extent not otherwise publicly available.

25. Definitions. As used in this Agreement, the following terms have the respective meanings set forth below:

(a) "Applicable Time" means: (i) each Representation Date; and (ii) the time of each sale of any Placement Shares pursuant to this Agreement.

(b) "Issuer Free Writing Prospectus" means any "issuer free writing prospectus," as defined in Rule 433, relating to the Placement Shares.

(c) "Rule 164," "Rule 172," "Rule 405," "Rule 415," "Rule 424," "Rule 424(b)," "Rule 430A," "Rule 430B," and "Rule 433" refer to such rules under the Securities Act Regulations.

(d) All references in this Agreement to financial statements and schedules and other information that is "contained," "included," or "stated" in the Registration Statement or the Prospectus (and all other references of like import) will be deemed to mean and include all such financial statements and schedules and other information that is incorporated by reference in the Registration Statement or the Prospectus, as the case may be.

(e) All references in this Agreement to the Registration Statement, the Prospectus or any amendment or supplement to any of the foregoing will be deemed to include the copy filed with the SEC pursuant to EDGAR; all references in this Agreement to any Issuer Free Writing Prospectus (other than any Issuer Free Writing Prospectuses that, pursuant to Rule 433, are not required to be filed with the SEC) will be deemed to include the copy thereof filed with the SEC pursuant to EDGAR; and all references in this Agreement to "supplements" to the Prospectus will include any supplements, "wrappers," or similar materials prepared in connection with any offering, sale, or private placement of any Placement Shares by Ascendant outside of the United States.

If the foregoing correctly sets forth the understanding between the Company and Ascendant, please so indicate in the space provided below for that purpose, whereupon this letter will constitute a binding agreement between the Company and Ascendant.

Very truly yours,

PHUNWARE, INC.

By: _____
Name: Matt Aune
Title: Chief Financial Officer

ACCEPTED as of the date first-above written:

ASCENDIANT CAPITAL MARKETS, LLC

By: _____
Name: Bradley J. Wilhite
Title: Managing Partner

SCHEDULE 1

FORM OF PLACEMENT NOTICE

From: Phunware, Inc.

To: Ascendant Capital Markets, LLC
Attention: Bradley J. Wilhite

Subject: At-The-Market Issuance Placement Notice

Gentlemen:

Pursuant to the terms and subject to the conditions contained in the At-The-Market Issuance Sales Agreement between Phunware, Inc., a Delaware corporation (the "Company") and Ascendant Capital Markets, LLC ("Ascendant"), dated August 14, 2020, the Company hereby requests that Ascendant sell up to _____ of the Company's Common Stock, par value \$0.0001 per share, at a minimum market price of \$ _____ per share, during the period beginning [month, day, time] and ending [month, day, time].

SCHEDULE 2

COMPENSATION

The Company will pay to Ascendant in cash, upon each sale of Placement Shares pursuant to this Agreement, an amount equal to 3.0% of the gross proceeds from each sale of Placement Shares.

SCHEDULE 3

NOTICE PARTIES

The Company:

Matt Aune maune@phunware.com

Ascendant:

Bradley J. Wilhite bwilhite@ascendant.com

SCHEDULE 4

SUBSIDIARIES

Phunware OpCo, Inc.

GoTV Networks, Inc. (Delaware corporation)

Taurus Merger Company, LLC (Delaware corporation)

GoTV Studios, LLC (California LLC)

Rain Acquisition, LLC

Faith Based Apps, LLC (California LLC)

Rain – US LLC

Phunware NL Cooperatief U.A.

SendDroid, LLC (Delaware LLC)

Simplikate Systems LLC (Delaware LLC)

30 Second Software, Inc. (Delaware corporation)

Chengdu Digby Technology Co., Ltd. (Chinese company)

Odyssey Mobile Marketing Limited (UK)

Odyssey Mobile Northern Europe Ltd. (Sweden)

Odyssey Mobile Asia Pte. Ltd. (Singapore)

Rain Acquisition Sub, Inc.

Dutch Holdings CV (Netherlands)

Phunware Europe BV

PhunCoin, Inc. (Wyoming)

PhunToken International (Cayman Islands)

SCHEDULE 6(a)

NOTICE OF NONCOMPLIANCE

Except as disclosed in the Registration Statement, including the Incorporated Documents, the Company has not, in the 12 months preceding the date hereof, received notice from the Exchange to the effect that the Company is not in compliance with the Exchange's listing or maintenance requirements.

SCHEDULE 6(dd)

FINDER'S FEES, BROKERAGE COMMISSIONS, OR SIMILAR PAYMENTS

Neither the Company nor any of the Subsidiaries has incurred any liability for any finder's fees, brokerage commissions, or similar payments in connection with the transactions herein contemplated, except as may otherwise exist respecting Ascendant pursuant to this Agreement.

Exhibit A

Form of Representation Date Certificate

This Officer's Certificate (this "Certificate") is executed and delivered in connection with Section 7(l) of the At-The-Market Issuance Sales Agreement (the "Agreement"), dated _____, 2020, and entered into between Phunware, Inc. (the "Company") and Ascendant Capital Markets, LLC. All capitalized terms used but not defined herein shall have the meanings given to such terms in the Agreement

The undersigned, a duly appointed and authorized officer of the Company, having made all necessary inquiries to establish the accuracy of the statements below and having been authorized by the Company to execute this certificate, hereby certifies as follows:

1. As of the date of this Certificate, (i) the Registration Statement does not contain any untrue statement of a material fact or omit to state a material fact required to be stated therein or necessary in order to make the statements therein not misleading and (ii) neither the Registration Statement nor the Prospectus contain any untrue statement of a material fact or omit to state a material fact required to be stated therein or necessary in order to make the statements therein, in light of the circumstances under which they were made, not misleading and (iii) no event has occurred as a result of which it is necessary to amend or supplement the Prospectus in order to make the statements therein not untrue or misleading.

2. Each of the representations and warranties of the Company contained in the Agreement were, when originally made, and except for representations and warranties that are made as of a specific date, are, as of the date of this Certificate, true and correct in all material respects.

3. Each of the covenants required to be performed by the Company in the Agreement on or prior to the date of the Agreement, this Representation Date, and each such other date as set forth in the Agreement, has been duly, timely and fully performed in all material respects and each condition required to be complied with by the Company on or prior to the date of the Agreement, this Representation Date, and each such other date as set forth in the Agreement has been duly, timely and fully complied with in all material respects.

4. Subsequent to the date of the most recent financial statements in the Prospectus, except as described in the Prospectus, including Incorporated Documents, there has been no Material Adverse Effect.

5. No stop order suspending the effectiveness of the Registration Statement or of any part thereof has been issued, and no proceedings for that purpose have been instituted or are pending or, to the knowledge of the Company are threatened by any securities or other governmental authority (including, without limitation, the Commission).

The undersigned has executed this Officer's Certificate as of the date first written above.

PHUNWARE, INC.

By: _____
Name: Matt Aune
Title: Chief Financial Officer

Exhibit B

Permitted Free Writing Prospectuses

All free writing prospectuses, if any, listed in Exhibit B below are Permitted Free Writing Prospectuses.