

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

**FORM S-3
REGISTRATION STATEMENT
UNDER
THE SECURITIES ACT OF 1933**

Invivyd, Inc.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

85-1403134
(I.R.S. Employer
Identification Number)

209 Church Street
New Haven, CT 06510
(781) 819-0080

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

William Duke, Jr.
Chief Financial Officer
Invivyd, Inc.
209 Church Street
New Haven, CT 06510
(781) 819-0080

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

Copies to:

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Chief Legal Officer and Corporate Secretary
Invivyd, Inc.
209 Church Street
New Haven, CT 06510
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Approximate date of commencement of proposed sale to the public: From time to time after the effective date of this Registration Statement.

If the only securities being registered on this Form are being offered pursuant to dividend or interest reinvestment plans, please check the following box.

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, other than securities offered only in connection with dividend or interest reinvestment plans, check the following box.

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a registration statement pursuant to General Instruction I.D. or a post-effective amendment thereto that shall become effective upon filing with the Commission pursuant to Rule 462(e) under the Securities Act, check the following box.

If this Form is a post-effective amendment to a registration statement filed pursuant to General Instruction I.D. filed to register additional securities or additional classes of securities pursuant to Rule 413(b) under the Securities Act, check the following box.

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

- | | | | |
|-------------------------|-------------------------------------|---------------------------|-------------------------------------|
| Large accelerated filer | <input type="checkbox"/> | Accelerated filer | <input type="checkbox"/> |
| Non-accelerated filer | <input checked="" type="checkbox"/> | Smaller Reporting Company | <input checked="" type="checkbox"/> |
| | | Emerging Growth Company | <input checked="" type="checkbox"/> |

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 7(a)(2)(B) of the Securities Act.

The Registrant hereby amends this registration statement on such date or dates as may be necessary to delay its effective date until the Registrant shall file a further amendment which specifically states that this registration statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933, as amended, or until this registration statement shall become effective on such date as the Securities and Exchange Commission, acting pursuant to said Section 8(a), may determine.

EXPLANATORY NOTE

This registration statement is a new registration statement being filed pursuant to Rule 415(a)(6) under the Securities Act of 1933, as amended, or the Securities Act, with respect to \$297,379,054.80 of securities which remain unsold by the registrant, or the Unsold Securities, under the registration statement on Form S-3 (File No. 333-267643), which was declared effective on October 5, 2022, or the Prior Registration Statement. Filing fees of \$27,567.03 were previously paid with respect to the Unsold Securities (calculated at the filing fee rate in effect at the time of the filing of the Prior Registration Statement). Pursuant to Rule 415(a)(5)(ii) under the Securities Act, by filing this registration statement, the registrant may issue and sell securities under the Prior Registration Statement until the earlier of (i) the effective date of this registration statement and (ii) April 3, 2026, which is 180 days after the third anniversary of the initial effective date of the Prior Registration Statement, the earlier being the Expiration Date. Until the Expiration Date, the registrant may continue to use the Prior Registration Statement and related prospectus supplement for its offerings thereunder. All offers and sales by the registrant under the Prior Registration Statement will be deemed terminated on the Expiration Date, except to the extent covered by this registration statement.

This registration statement contains two prospectuses:

- a base prospectus, which covers the offering, issuance and sale by the registrant of up to a maximum aggregate offering price of \$350,000,000 of the registrant's common stock, preferred stock, warrants, debt securities and units; and
- an "at the market offering" sales agreement prospectus supplement covering the offering, issuance and sale by the registrant of up to a maximum aggregate offering price of \$75,000,000 of the registrant's common stock that may be issued and sold from time to time under that certain Controlled Equity OfferingSM Sales Agreement, dated as of December 22, 2023, or the Sales Agreement, with Cantor Fitzgerald & Co., as sales agent.

The base prospectus immediately follows this explanatory note. The specific terms of any securities to be offered pursuant to the base prospectus, other than the shares under the Sales Agreement, will be specified in a prospectus supplement to the base prospectus. The "at the market offering" prospectus supplement immediately follows the base prospectus. The common stock that may be offered, issued and sold by the registrant under the "at the market offering" prospectus supplement is included in the \$350,000,000 of securities that may be offered, issued and sold by the registrant under the base prospectus. Upon any termination of the offering under the Sales Agreement, any portion of the \$75,000,000 included in the "at the market offering" prospectus supplement that has not been sold pursuant to the Sales Agreement will become available for sale in other offerings pursuant to the base prospectus and a corresponding prospectus supplement, and if no shares of common stock are sold under the Sales Agreement, the full \$75,000,000 of securities may be sold in other offerings pursuant to the base prospectus and a corresponding prospectus supplement.

The information contained in this prospectus is not complete and may be changed. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This prospectus is not an offer to sell these securities and it is not soliciting an offer to buy these securities in any state where such offer or sale is not permitted.

SUBJECT TO COMPLETION, DATED OCTOBER 2, 2025

PROSPECTUS

INVIVYD

\$350,000,000

**Common Stock
Preferred Stock
Warrants
Debt Securities
Units**

We may offer to the public from time to time in one or more series or issuances and on terms that we will determine at the time of the offering:

- shares of our common stock;
- shares of our preferred stock;
- warrants to purchase shares of our common stock, preferred stock and/or debt securities;
- debt securities consisting of debentures, notes or other evidences of indebtedness;
- units consisting of a combination of the foregoing securities; or
- any combination of these securities.

The aggregate initial offering price of all securities sold by us pursuant to this prospectus will not exceed \$350,000,000.

This prospectus provides a general description of the securities that we may offer. Each time that we offer securities under this prospectus, we will provide the specific terms of the securities offered, including the public offering price, in a supplement to this prospectus. Any prospectus supplement may add to, update or change information contained or incorporated by reference in this prospectus.

The securities may be sold by us to or through underwriters or dealers, directly to purchasers or through agents designated from time to time. For additional information on the methods of sale, you should refer to the section entitled "Plan of Distribution" in this prospectus and the comparable section of any applicable prospectus supplement. If any underwriters are involved in the sale of the securities with respect to which this prospectus is being delivered, the names of such underwriters and any applicable discounts, commissions and purchase options will be set forth in the applicable prospectus supplement.

Our common stock trades on The Nasdaq Global Market under the ticker symbol "IVVD". On September 30, 2025, the last reported sale price per share of our common stock was \$1.10. We have not yet determined whether the other securities that may be offered by this prospectus will be listed on any exchange, interdealer quotation system or over-the-counter market. If we decide to seek the listing of any such securities upon issuance, the prospectus supplement relating to those securities will disclose the exchange, quotation system or market on which those securities will be listed.

We are (i) an "emerging growth company" as defined by the Jumpstart Our Business Startups Act of 2012, or the JOBS Act, and (ii) a "smaller reporting company" as defined by the Securities Exchange Act of 1934, as amended, or the Exchange Act, and, as such, we are subject to reduced public company reporting requirements for this prospectus and future filings. Refer to the section entitled "Implications of Being an Emerging Growth Company and a Smaller Reporting Company" beginning on page 5 of this prospectus for more information.

INVESTING IN OUR SECURITIES INVOLVES A HIGH DEGREE OF RISK. RISKS ASSOCIATED WITH AN INVESTMENT IN OUR SECURITIES WILL BE DESCRIBED IN THE APPLICABLE PROSPECTUS SUPPLEMENT AND CERTAIN OF OUR FILINGS WITH THE SECURITIES AND EXCHANGE COMMISSION INCORPORATED BY REFERENCE INTO THIS PROSPECTUS, AS DESCRIBED UNDER "[RISK FACTORS](#)" ON PAGE 7.

You should read this prospectus and any applicable prospectus supplement together with additional information described under the heading "Where You Can Find More Information" before you make your investment decision.

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

The date of this prospectus is _____, 2025

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ABOUT THIS PROSPECTUS

This prospectus is a part of a registration statement on Form S-3 that we filed with the Securities and Exchange Commission, or the SEC, using a “shelf” registration process. Under this shelf registration process, we may offer to sell any of the securities, or any combination of the securities, described in this prospectus, in each case in one or more offerings, up to a total dollar amount of \$350,000,000.

This prospectus provides you only with a general description of the securities that we may offer. Each time securities are sold under this shelf registration statement, we will provide an accompanying prospectus supplement that will contain specific information about the terms of those securities and the terms of that offering. The accompanying prospectus supplement may also add, update or change information contained in this prospectus. If there is any inconsistency between the information in this prospectus and any accompanying prospectus supplement, you should rely on the information in the accompanying prospectus supplement. You should read both this prospectus and any accompanying prospectus supplement, including all documents incorporated by reference herein and therein, together with the additional information described under “Where You Can Find More Information” below.

The information contained in this prospectus is not complete and may be changed. You should rely only on the information provided in or incorporated by reference in this prospectus or in any accompanying prospectus supplement, or documents to which we otherwise refer you. We have not authorized anyone else to provide you with different information.

We have not authorized any dealer, agent or other person to give any information or to make any representation other than those contained or incorporated by reference in this prospectus and any accompanying prospectus supplement. You must not rely upon any information or representation not contained or incorporated by reference in this prospectus or an accompanying prospectus supplement. This prospectus and the accompanying prospectus supplement, if any, do not constitute an offer to sell or the solicitation of an offer to buy any securities other than the registered securities to which they relate, nor do this prospectus and the accompanying prospectus supplement, if any, constitute an offer to sell or the solicitation of an offer to buy securities in any jurisdiction to any person to whom it is unlawful to make such offer or solicitation in such jurisdiction. You should not assume that the information contained in this prospectus and the accompanying prospectus supplement, if any, is accurate on any date subsequent to the date set forth on the front of such document or that any information we have incorporated by reference is correct on any date subsequent to the date of the document incorporated by reference, even though this prospectus and any accompanying prospectus supplement is delivered or securities are sold on a later date.

References in this prospectus to the terms “the Company,” “Invivyd,” “we,” “our” and “us” or other similar terms mean Invivyd, Inc. and our wholly-owned subsidiaries, unless we state otherwise or the context indicates otherwise.

“Invivyd,” “PEMGARDA,” “INVYMAB” as well as logos and certain stylized versions of these word marks are registered trademarks of Invivyd, Inc. This prospectus and the documents incorporated by reference into this prospectus may also contain trademarks and trade names that are the property of their respective owners. We do not intend our use or display of other companies’ trade names, trademarks or service marks to imply relationships with, or endorsements or sponsorship of us by, these other companies.

FORWARD-LOOKING STATEMENTS

This prospectus and the documents incorporated by reference herein contain, and any prospectus supplement and the documents incorporated therein may contain, forward-looking statements that involve substantial risks and uncertainties. All statements, other than statements of historical facts, included in this prospectus, any prospectus supplement or the documents incorporated herein and therein by reference, including statements regarding our future financial condition, results of operations, business strategy and plans and objectives of management for future operations, industry trends and other future events, are forward-looking statements. In some cases, you can identify forward-looking statements by terminology such as “may,” “anticipate,” “believe,” “could,” “expect,” “intends,” “might,” “plan,” “possible,” “potential,” “aim,” “predict,” “project,” “should,” “will,” “would” or the negative of these terms or other similar expressions, although not all forward-looking statements contain these identifying terms. The forward-looking statements in this prospectus and the documents incorporated herein by reference include, among other things, statements about:

- our plans related to the commercialization of PEMGARDA[®] (pemivibart), which received emergency use authorization, or EUA, from the U.S. Food and Drug Administration, or the FDA, in March 2024, including our expectations about the potential market opportunity;
- the design of PEMGARDA to keep pace with SARS-CoV-2 viral evolution;
- our expectations regarding VYD2311, our next generation monoclonal antibody, or mAb, candidate for COVID-19, and the potential of VYD2311 to offer the ability to deliver clinically meaningful titer levels through more system- and patient-friendly means;
- our expectations regarding availability of a rapid pathway to potential Biologics License Application, or BLA, approval for VYD2311 for the prevention of COVID-19 and the compact pivotal clinical trial that could support it;
- the anticipated timing, design, progress and results of preclinical studies and clinical trials of our product candidates, including statements regarding initiation or completion of studies or trials and related preparatory work, the period during which results of any studies or trials will become available, and potential regulatory submissions;
- our devotion to delivering protection from serious viral infectious diseases, and our aim to develop mAbs that could be used in prevention or treatment of serious viral diseases, starting with COVID-19 and potentially expanding into other high-need indications;
- our discovery efforts to assess pipeline expansion beyond SARS-CoV-2, including potential targets such as respiratory syncytial virus and measles;
- our goal of establishing streamlined development pathways to efficiently introduce new mAb candidates targeting SARS-CoV-2;
- our expectations regarding the regulatory pathway for our product candidates, the anticipated timing of any submission of filings for regulatory authorization or approval of, and our ability to obtain and maintain regulatory authorizations or approvals for, our product candidates;
- our plans regarding SARS-CoV-2 variant monitoring of antiviral activity as part of our ongoing industrial virology effort;
- our expectations regarding the size of the patient populations, market acceptance and opportunity for and clinical utility of our product candidates, if authorized or approved for commercial use;
- our manufacturing capabilities and strategy, and our expectations regarding supply and demand of our product candidates;
- our ability to successfully commercialize our product candidates, if authorized or approved, including our distribution capabilities and strategy;

- our ability to identify and develop future product candidates;
- our expectations regarding the SPEAR (Spike Protein Elimination and Recovery) Study Group, including its anticipated focus, goals and plans;
- our estimates of our expenses, ongoing losses, future potential revenue, capital requirements and our need for or ability to obtain additional funding;
- our expectations regarding our ability to continue as a going concern;
- our competitive position and the development of and projections relating to our competitors or our industry; and
- our intended use of proceeds.

We cannot guarantee that the results and other expectations expressed, anticipated or implied in any forward-looking statement will be realized. The risks set forth under Item 1A of our Annual Report on Form 10-K for the fiscal year ended December 31, 2024, as revised or supplemented by our Quarterly Reports on Form 10-Q and other documents we file with the SEC, describe material risks to our business, and you should read and interpret any forward-looking statements together with these risks. A variety of factors, including these risks, could cause our actual results and other expectations to differ materially from the anticipated results or other expectations expressed, anticipated or implied in our forward-looking statements. Should known or unknown risks materialize, or should underlying assumptions prove inaccurate, actual results could differ materially from past results and those anticipated, estimated or projected in the forward-looking statements. You should bear this in mind as you consider any forward-looking statements.

You should read this prospectus, any prospectus supplement and the documents that we incorporate by reference herein and therein completely and with the understanding that our actual future results may be materially different from what we expect. The forward-looking statements contained in this prospectus are made as of the date of this prospectus and we do not assume any obligation to update any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by applicable law.

MARKET, INDUSTRY AND OTHER DATA

This prospectus and any applicable prospectus supplement and the documents incorporated by reference herein and therein contain estimates, projections, market research and other information concerning, among other things, our industry, our business, and markets for our product candidates. Unless otherwise expressly stated, we obtain this information from reports, research surveys, studies and similar data prepared by market research firms and other third parties, industry, medical and general publications, government data and similar sources as well as from our own internal estimates and research and from publications, research, surveys and studies conducted by third parties on our behalf. Information that is based on estimates, projections, market research or similar methodologies is inherently subject to uncertainties and actual events or circumstances may differ materially from events and circumstances that are reflected in this information. As a result, you are cautioned not to give undue weight to such information.

SUMMARY

This summary highlights selected information from this prospectus and does not contain all of the information that you need to consider in making your investment decision. You should carefully read the entire prospectus, the applicable prospectus supplement and any related free writing prospectus, including the risks of investing in our securities discussed under the heading “Risk Factors” contained in the applicable prospectus supplement and any related free writing prospectus, and under similar headings in the other documents that are incorporated by reference into this prospectus. You should also carefully read the information incorporated by reference into this prospectus, including our financial statements, and the exhibits to the registration statement of which this prospectus is a part.

Company Overview

We are a biopharmaceutical company devoted to delivering protection from serious viral infectious diseases, beginning with SARS-CoV-2. PEMGARDA® (pemivibart) is our first mAb to receive regulatory authorization and was designed to keep pace with SARS-CoV-2 viral evolution.

On March 22, 2024, we received an EUA from the FDA for PEMGARDA injection, for intravenous use, a half-life extended investigational mAb, for the pre-exposure prophylaxis (prevention) of COVID-19 in adults and adolescents (12 years of age and older weighing at least 40 kg) who have moderate-to-severe immune compromise due to certain medical conditions or receipt of certain immunosuppressive medications or treatments and are unlikely to mount an adequate immune response to COVID-19 vaccination. Recipients should not be currently infected with or have had a known recent exposure to an individual infected with SARS-CoV-2.

In January 2024, we nominated VYD2311, a next generation mAb candidate for COVID-19, as a drug candidate, and in September 2024, we announced dosing of the first participants in a Phase 1/2 clinical trial of VYD2311. VYD2311 is a mAb with high in vitro neutralization potency shown against prominent SARS-CoV-2 variants tested to date. The Phase 1/2 randomized, blinded, placebo-controlled clinical trial evaluated escalating dosing as well as safety, tolerability, pharmacokinetics and immunogenicity of VYD2311 in healthy trial participants. The Phase 1/2 clinical trial was conducted in Australia and evaluated multiple dose levels of VYD2311 through various routes of administration, including exploration of intramuscular administration and subcutaneous administration, which are designed to be more system- and patient-friendly than intravenous administration. In June 2025, we announced positive full Phase 1/2 clinical data for VYD2311 for both safety and pharmacokinetics. In August 2025, we announced alignment with advice from the FDA on a compact and, therefore, rapid pathway to potential BLA approval for VYD2311 for the prevention of COVID-19. As part of a recent Type C meeting, the FDA advised us that a single, Phase 2/3 randomized, double-blind, placebo-controlled trial evaluating mAb efficacy from a relatively modest number of RT-PCR-confirmed symptomatic COVID-19 disease events could support a BLA submission for VYD2311 for the prevention of COVID-19 in a broad population of Americans (12 years of age and older, weighing at least 40kg), including immunocompromised people, subject to agreement on safety database size and pending full protocol review. Like pemivibart, VYD2311 was engineered from adintrevimab, our investigational mAb that has a robust safety data package and demonstrated clinically meaningful results in global Phase 2/3 clinical trials for both the prevention and treatment of COVID-19.

In July 2025, we announced that we had formed the SPEAR (Spike Protein Elimination and Recovery) Study Group with leading investigators to structure and guide anticipated clinical trials evaluating the effects of broadly neutralizing anti-SARS-CoV-2 spike protein mAb therapy in people suffering from Long COVID or Post-Vaccination Syndrome, or PVS. The SPEAR Study Group intends to launch multi-center translational clinical research on Long COVID and PVS using next-generation antibodies like our investigational mAb candidate VYD2311.

Globally, COVID-19 has caused millions of deaths and lasting health problems in many survivors and remains a significant global health concern, particularly for immunocompromised individuals. Isolation and mental health impacts, absenteeism from work, and educational losses for children have been profound consequences of this crisis. COVID-19 persists and continues to impact patients, notably those who are immunocompromised, and combating this disease will require a variety of effective and safe prevention and treatment options for years to come. By leveraging our capabilities, which we have developed through our experience with adintrevimab and pemivibart and over five years in the COVID-19 space, we aim to develop mAbs that could be used in prevention or treatment of serious viral diseases, starting with COVID-19 and potentially expanding into other high-need indications.

PEMGARDA has not been approved, but has been authorized for emergency use by the FDA under an EUA, for pre-exposure prophylaxis of COVID-19 in certain adults and adolescent individuals (12 years of age and older weighing at least 40 kg). The emergency use of PEMGARDA is only authorized for the duration of the declaration that circumstances exist justifying the authorization of the emergency use of drugs and biological products during the COVID-19 pandemic under Section 564(b)(1) of the Federal Food, Drug, and Cosmetic Act, 21 U.S.C. § 360bbb-3(b)(1), unless the declaration is terminated or authorization revoked sooner. PEMGARDA is authorized for use only when the combined national frequency of variants with substantially reduced susceptibility to PEMGARDA is less than or equal to 90%, based on available information including variant susceptibility to PEMGARDA and national variant frequencies.

We engage in active SARS-CoV-2 variant monitoring of antiviral activity as part of our ongoing industrial virology effort, which leverages a consistent, high-quality, independent, third-party pseudoviral system that routinely tests authentic Invivyd-produced molecules and is supported by structure-based analytics. In September 2024, we announced continued neutralizing activity of PEMGARDA against SARS-CoV-2 variants KP.3.1.1 and LB.1, and attractive neutralization potency of VYD2311 against the same contemporary viruses, and also provided an update to ongoing structural analysis showing no meaningful mutational change in the pemivibart binding site since the Omicron shift late in 2021. In January 2025, March 2025 and August 2025, we announced continued neutralizing activity of PEMGARDA and VYD2311 against dominant SARS-CoV-2 variants XEC, LP.8.1 and XFG, respectively.

For more information about our company, please refer to other documents that we have filed with the SEC and that are incorporated by reference into this prospectus, as listed under the heading “Incorporation By Reference.”

Corporate Information

We were incorporated under the laws of the State of Delaware in June 2020. We operate as a hybrid company. Our principal executive offices are located at 209 Church Street, New Haven, CT 06510 and our telephone number is (781) 819-0080. Our website address is www.invivyd.com. We do not incorporate the information on, or accessible through, our website into this prospectus, and you should not consider any information on, or accessible through, our website as part of this prospectus.

Implications of Being an Emerging Growth Company and a Smaller Reporting Company

We are an “emerging growth company,” as defined in the JOBS Act, and may remain an emerging growth company until the last day of the fiscal year following the fifth anniversary of the completion of our initial public offering. However, if certain events occur prior to the end of such five-year period, including if we become a “large accelerated filer,” our annual gross revenues exceed \$1.235 billion or we issue more than \$1.0 billion of non-convertible debt in the previous three-year period, we will cease to be an emerging growth company prior to the end of such five-year period. For so long as we remain an emerging growth company, we are permitted and

intend to rely on exemptions from certain disclosure requirements that are applicable to other public companies that are not emerging growth companies. These exemptions include:

- an exemption from compliance with the auditor attestation requirement in the assessment of our internal control over financial reporting;
- reduced disclosure obligations regarding executive compensation;
- exemptions from the requirements of holding a non-binding advisory vote on executive compensation and stockholder approval of any golden parachute payments not previously approved; and
- an exemption from compliance with the requirements of the Public Company Accounting Oversight Board regarding the communication of critical audit matters in the auditor's report on the financial statements.

In addition, the JOBS Act provides that an emerging growth company can take advantage of an extended transition period for complying with new or revised accounting standards. This allows an emerging growth company to delay the adoption of these accounting standards until they would otherwise apply to private companies. We have elected to avail ourselves of this exemption from new or revised accounting standards and, therefore, may not be subject to the same new or revised accounting standards as other public companies that are not emerging growth companies. As a result, our financial statements may not be comparable to companies that comply with the new or revised accounting pronouncements as of public company effective dates.

We are also a "smaller reporting company" as defined in the Exchange Act. We may continue to be a smaller reporting company even after we are no longer an emerging growth company, which would allow us to take advantage of many of the same exemptions available to emerging growth companies. We will be able to take advantage of these scaled disclosures for so long as our voting and non-voting common stock held by non-affiliates is less than \$250.0 million measured on the last business day of our second fiscal quarter, or our annual revenue is less than \$100.0 million during the most recently completed fiscal year and our voting and non-voting common stock held by non-affiliates is less than \$700.0 million measured on the last business day of our second fiscal quarter. In addition, if we are a smaller reporting company with less than \$100.0 million in annual revenue, we would not be required to comply with the auditor attestation requirements of Section 404 of the Sarbanes-Oxley Act of 2002.

RISK FACTORS

Investing in our securities involves a high degree of risk. The prospectus supplement applicable to each offering of our securities will contain a discussion of the risks applicable to an investment in our securities. Prior to making a decision about investing in our securities, you should carefully consider the specific factors discussed under the heading “Risk Factors” in the applicable prospectus supplement, together with all of the other information contained or incorporated by reference in the prospectus supplement or appearing or incorporated by reference in this prospectus. You should also consider the risks, uncertainties and assumptions discussed under the heading “Risk Factors” in our most recent Annual Report on Form 10-K and our Quarterly Reports on Form 10-Q and other documents that we file with the SEC, which are incorporated herein by reference as described in this prospectus under the heading “Where You Can Find More Information”. The risks and uncertainties we have described in such documents are not the only risks that we face. Additional risks and uncertainties not presently known to us or that we currently deem immaterial may also affect our operations.

USE OF PROCEEDS

Except as otherwise provided in the applicable prospectus supplement relating to a specific offering, we intend to use the net proceeds from the sale of securities by us under this prospectus and any applicable prospectus supplement for general corporate purposes, which may include research and development expenditures, preclinical study and clinical trial expenditures, manufacturing expenditures, commercialization expenditures, working capital, capital expenditures, acquisitions of new technologies, products or businesses, and investments. We may also use a portion of the net proceeds from the sale of securities under this prospectus and any applicable prospectus supplement to acquire or invest in complementary businesses, technologies, product candidates or other intellectual property, although we have no present commitments or agreements to do so. Additional information on the use of net proceeds from the sale of securities by us under this prospectus may be set forth in the accompanying prospectus supplement relating to the specific offering.

PLAN OF DISTRIBUTION

We may sell the securities, from time to time pursuant to public offerings, negotiated transactions, block trades, "At the Market Offerings," within the meaning of Rule 415(a)(4) of the Securities Act of 1933, as amended, or the Securities Act, into an existing trading market, at prevailing market prices, or a combination of these methods. We may sell the securities to or through underwriters or dealers, through agents or remarketing firms, or directly to one or more purchasers. We may distribute securities from time to time in one or more transactions:

- at a fixed price or prices, which may be changed;
- at market prices prevailing at the time of sale;
- at prices related to such prevailing market prices; or
- at negotiated prices.

A prospectus supplement or supplements (and any related free writing prospectus that we may authorize to be provided to you) will describe the terms of the offering of the securities, including, to the extent applicable:

- the name or names of the underwriters, dealers or agents, if any;
- if the securities are to be offered through the selling efforts of brokers or dealers, the plan of distribution and the terms of any agreement, arrangement, or understanding entered into with broker(s) or dealer(s) prior to the effective date of the registration statement, and, if known, the identity of any broker(s) or dealer(s) who will participate in the offering and the amount to be offered through each;
- the purchase price of the securities or other consideration therefor, and the proceeds, if any, we will receive from the sale;
- if any of the securities being registered are to be offered otherwise than for cash, the general purposes of the distribution, the basis upon which the securities are to be offered, the amount of compensation and other expenses of distribution, and by whom they are to be borne;
- any delayed delivery arrangements;
- any options under which underwriters may purchase additional securities from us;
- any agency fees or underwriting discounts and other items constituting agents' or underwriters' compensation;
- any public offering price;
- any discounts, commissions or concessions allowed or reallocated or paid to dealers;
- the identity and relationships of any finders, if applicable; and
- any securities exchange or market on which the securities may be listed.

Only underwriters named in the prospectus supplement will be underwriters of the securities offered by the prospectus supplement.

If underwriters are used in the sale, they will acquire the securities for their own account and may resell the securities from time to time in one or more transactions at a fixed public offering price or at varying prices determined at the time of sale. The obligations of the underwriters to purchase the securities will be subject to the conditions set forth in the applicable underwriting agreement. We may offer the securities to the public through underwriting syndicates represented by managing underwriters or by underwriters without a syndicate. Unless otherwise indicated in the prospectus supplement, subject to certain conditions, the underwriters will be obligated to purchase all of the securities offered by the prospectus supplement, other than securities covered by any

purchase option. Any public offering price and any discounts or concessions allowed or reallocated or paid to dealers may change from time to time. We may use underwriters, dealers or agents with whom we have a material relationship. We will describe in the prospectus supplement, naming the underwriter, dealer or agent, the nature of any such relationship.

We may use a remarketing firm to offer the securities in connection with a remarketing arrangement upon their purchase. Remarketing firms will act as principals for their own account or as agents for us. These remarketing firms will offer or sell the securities pursuant to the terms of the securities. A prospectus supplement will identify any remarketing firm and the terms of its agreement, if any, with us and will describe the remarketing firm's compensation. Remarketing firms may be deemed to be underwriters in connection with the securities they remarket.

If we offer and sell securities through a dealer, we or an underwriter will sell the securities to the dealer, as principal. The dealer may then resell the securities to the public at varying prices to be determined by the dealer at the time of resale. The name of the dealer and the terms of the transaction will be set forth in the applicable prospectus supplement.

We may sell securities directly or through agents we designate from time to time. We will name any agent involved in the offering and sale of securities and we will describe any commissions we will pay to the agent in the prospectus supplement. Unless the prospectus supplement states otherwise, our agent will act on a best-efforts basis for the period of its appointment.

Dealers and agents participating in the distribution of the securities may be deemed to be underwriters, and compensation received by them on resale of the securities may be deemed to be underwriting discounts. If such dealers or agents were deemed to be underwriters, they may be subject to statutory liabilities under the Securities Act.

We may sell securities directly to one or more purchasers without using underwriters or agents. Underwriters, dealers and agents that participate in the distribution of the securities may be underwriters as defined in the Securities Act, and any discounts or commissions they receive from us and any profit on their resale of the securities may be treated as underwriting discounts and commissions under the Securities Act.

We may authorize agents or underwriters to solicit offers by certain types of institutional investors to purchase securities from us at the public offering price set forth in the prospectus supplement pursuant to delayed delivery contracts providing for payment and delivery on a specified date in the future. We will describe the conditions to these contracts and the commissions we must pay for solicitation of these contracts in the prospectus supplement.

We may provide agents, underwriters and dealers with indemnification against civil liabilities, including liabilities under the Securities Act, or contribution with respect to payments that the agents, underwriters or dealers may make with respect to these liabilities. Agents, underwriters and dealers, or their respective affiliates, may engage in transactions with, or perform services for, us in the ordinary course of business.

All securities we may offer, other than common stock, will be new issues of securities with no established trading market. Any underwriter may make a market in these securities, but will not be obligated to do so and may discontinue any market making at any time without notice. We cannot guarantee the liquidity of the trading markets for any securities.

Any underwriter may engage in purchase options, stabilizing transactions, short-covering transactions and penalty bids in accordance with Regulation M under the Exchange Act. Purchase options involve sales in excess of the offering size, which create a short position. Stabilizing transactions permit bids to purchase the underlying security so long as the stabilizing bids do not exceed a specified maximum price. Syndicate-covering or other

short-covering transactions involve purchases of the securities, either through exercise of the purchase option or in the open market after the distribution is completed, to cover short positions. Penalty bids permit the underwriters to reclaim a selling concession from a dealer when the securities originally sold by the dealer are purchased in a stabilizing or covering transaction to cover short positions. Those activities may cause the price of the securities to be higher than it would otherwise be. If commenced, the underwriters may discontinue any of the activities at any time.

Any underwriters that are qualified market makers on The Nasdaq Stock Market may engage in passive market making transactions in our common stock on The Nasdaq Stock Market in accordance with Regulation M under the Exchange Act during the business day prior to the pricing of the offering, before the commencement of offers or sales of our common stock. Passive market makers must comply with applicable volume and price limitations and must be identified as passive market makers. In general, a passive market maker must display its bid at a price not in excess of the highest independent bid for such security; if all independent bids are lowered below the passive market maker's bid, however, the passive market maker's bid must then be lowered when certain purchase limits are exceeded. Passive market making may stabilize the market price of the securities at a level above that which might otherwise prevail in the open market and, if commenced, may be discontinued at any time.

GENERAL DESCRIPTION OF OUR SECURITIES

We may offer and sell, at any time and from time to time:

- shares of our common stock;
- shares of our preferred stock;
- warrants to purchase shares of our common stock, preferred stock and/or debt securities;
- debt securities consisting of debentures, notes or other evidences of indebtedness;
- units consisting of a combination of the foregoing securities; or
- any combination of these securities.

The terms of any securities we offer will be determined at the time of sale. We may issue debt securities that are exchangeable for and/or convertible into common stock or any of the other securities that may be sold under this prospectus. When particular securities are offered by us, a supplement to this prospectus will be filed with the SEC, which will describe the terms of the offering and sale of the offered securities.

DESCRIPTION OF OUR COMMON STOCK

The summary of general terms and provisions of our common stock set forth below does not purport to be complete and is subject to and qualified by reference to our Amended and Restated Certificate of Incorporation, as amended, or the Certificate of Incorporation, and Amended and Restated Bylaws, as amended, or the Bylaws, and together with the Certificate of Incorporation, the Charter Documents, each of which is included as an exhibit to our most recent Annual Report on Form 10-K filed with the SEC and incorporated by reference herein. For additional information, please read the Charter Documents and the applicable provisions of the Delaware General Corporation Law, or the DGCL.

General

We are authorized to issue up to 1,010,000,000 shares, of which 1,000,000,000 have been designated common stock, par value \$0.0001 per share. As of September 22, 2025, there were 214,409,450 shares of our common stock outstanding. As of September 22, 2025, we had approximately 9 stockholders of record. This figure does not reflect the number of beneficial owners of shares of our common stock as a single stockholder of record often holds shares in nominee name (also referred to as, in “street name”) on behalf of multiple beneficial owners.

Voting Rights

Each holder of our common stock is entitled to one vote for each share on all matters submitted to a vote of the stockholders, including the election of directors.

Except as otherwise provided by statute or by applicable stock exchange rules, or by the Certificate of Incorporation or the Bylaws, in all matters other than the election of directors, the affirmative vote of the majority of shares present in person, by remote communication, if applicable, or represented by proxy at the meeting and entitled to vote generally on the subject matter shall be the act of the stockholders. Except as otherwise provided by statute, the Certificate of Incorporation or the Bylaws, directors are elected by a plurality of the votes of the shares present in person, by remote communication, if applicable, or represented by proxy at the meeting and entitled to vote generally on the election of directors. Where a separate vote by a class or classes or series is required, except where otherwise provided by the statute or by the Certificate of Incorporation or the Bylaws, a majority of the outstanding shares of such class or classes or series, present in person, by remote communication, if applicable, or represented by proxy duly authorized, shall constitute a quorum entitled to take action with respect to that vote on that matter. Except where otherwise provided by statute or by the Certificate of Incorporation or the Bylaws, the affirmative vote of the majority (plurality, in the case of the election of directors) of shares of such class or classes or series present in person, by remote communication, if applicable, or represented by proxy at the meeting shall be the act of such class or classes or series.

The affirmative vote of holders of at least 66 2/3% of the voting power of all of the then-outstanding shares of capital stock entitled to vote generally in the election of directors, voting as a single class, is required to alter, amend or repeal certain provisions of the Certificate of Incorporation, including provisions relating to amending the Bylaws, the size of our board of directors, removal of directors, director liability, vacancies on our board of directors, stockholder notices, actions by written consent and exclusive forum.

Dividends

Subject to preferences that may be applicable to any then-outstanding preferred stock, holders of common stock are entitled to receive ratably those dividends, if any, as may be declared from time to time by our board of directors out of legally available funds.

Liquidation

In the event of our liquidation, dissolution or winding up, holders of our common stock will be entitled to share ratably in the net assets legally available for distribution to stockholders after the payment of all of our debts and other liabilities and the satisfaction of any liquidation preference granted to the holders of any then-outstanding shares of preferred stock.

Rights and Preferences

Holders of our common stock have no preemptive, conversion or subscription rights, and there are no redemption or sinking fund provisions applicable to our common stock. The rights, preferences and privileges of the holders of our common stock are subject to, and may be adversely affected by, the right of the holders of shares of any series of preferred stock that we may designate in the future.

Outstanding Stock Options

As of September 22, 2025, we had outstanding options to purchase 21,672,173 shares of our common stock at a weighted-average exercise price of \$3.06 per share, pursuant to our 2020 Equity Incentive Plan and 2021 Equity Incentive Plan. As of September 22, 2025, there were no shares of our common stock reserved for future issuance under the 2020 Equity Incentive Plan and 12,658,886 shares of our common stock reserved for future issuance under our 2021 Equity Incentive Plan.

Outstanding Restricted Stock Units

As of September 22, 2025, we had reserved 1,539,000 shares of our common stock for issuance upon the settlement of outstanding restricted stock units, pursuant to our 2021 Equity Incentive Plan.

2021 Employee Stock Purchase Plan

As of September 22, 2025, there were 589,957 shares of our common stock reserved for future issuance under our 2021 Employee Stock Purchase Plan.

Outstanding Warrants

As of September 22, 2025, we had (i) an outstanding warrant exercisable for up to an aggregate of 6,824,712 shares of our common stock, no portion of which was vested as of such date and (ii) an outstanding pre-funded warrant exercisable for up to an aggregate of 21,342,442 shares of our common stock.

Registration Rights

Second Amended and Restated Investors' Rights Agreement

We and certain holders of our common stock have entered into a second amended and restated investors' rights agreement, or the investors' rights agreement. The registration rights provisions of this agreement provide those holders with demand, piggyback and Form S-3 registration rights with respect to the shares of common stock covered by the investors' rights agreement. These shares are collectively referred to herein as registrable securities.

Demand Registration Rights

The holders of a majority of the registrable securities then outstanding have the right to demand that we file a Form S-1 registration statement for which the anticipated aggregate offering price would exceed \$10 million. Upon such demand, we are required to, as soon as practicable, and in any event within 60 days after the date such

request is given by the initiating holders, file a Form S-1 registration statement covering all registrable securities that the initiating holders requested to be registered and any additional registrable securities requested to be included in such registration by any other holders, subject to the terms and conditions included in such investors' rights agreement.

The holders of at least 30% of the registrable securities then outstanding have the right to demand, at a time when we are eligible to use Form S-3 registration statement, that we file a Form S-3 registration statement with respect to outstanding registrable securities of such holders having an anticipated aggregate offering price of at least \$1 million. Upon such demand, we are required to, as soon as practicable, and in any event within 45 days after the date such request is given by the initiating holders, file a Form S-3 registration statement covering all registrable securities that the initiating holders requested to be registered and any additional registrable securities requested to be included in such registration by any other holders, subject to the terms and conditions included in such investors' rights agreement.

These demand registration rights are subject to specified conditions and limitations included in such investors' rights agreement, including the right of the underwriters, if any, to limit the number of shares included in any such registration under specified circumstances.

Piggyback Registration Rights

If we propose to register any of our securities under the Securities Act either for our own account or for the account of other stockholders, the holders of registrable securities will each be entitled to notice of the registration and will be entitled to include their shares of common stock in the registration statement. These piggyback registration rights are subject to specified conditions and limitations, including the right of the underwriters to limit the number of shares included in any such registration under specified circumstances. The holders of piggyback registration rights granted pursuant to the investors' rights agreement have effectively waived their piggyback registration rights in connection with the registration statement of which this prospectus is a part, as well as all subsequent offerings related to the registration statement of which this prospectus is a part.

Expenses of Registration

We are required to pay all expenses, including fees and expenses of one counsel to represent the selling stockholders, relating to any demand, piggyback or Form S-3 registration, other than underwriting discounts and commissions, stock transfer taxes and any additional fees of counsel for the selling stockholders, subject to specified conditions and limitations. We are not required to pay registration expenses if a demand registration request is withdrawn at the request of a majority of holders of registrable securities to be registered, unless holders of a majority of the registrable securities agree to forfeit their right to one demand registration.

The investors' rights agreement contains customary cross-indemnification provisions, pursuant to which we are obligated to indemnify the selling stockholders in the event of material misstatements or omissions in the applicable registration statement attributable to us, and the selling stockholders are obligated to indemnify us for material misstatements or omissions in the registration statement attributable to them, subject to certain limitations.

Termination of Registration Rights

The registration rights granted under the investors' rights agreement will terminate with respect to any particular stockholder upon the earliest of (a) the closing of a deemed liquidation event, as defined in the Certificate of Incorporation, (b) with respect to each stockholder, at such time such stockholder is able to sell all of its shares pursuant to Rule 144 or another similar exemption under the Securities Act during a three-month period without registration and (c) the fifth anniversary of the closing of our initial public offering.

Common Stock Purchase Warrant

We have outstanding a warrant to purchase shares of our common stock which provides certain piggyback registration rights requiring us to register the shares of common stock underlying such warrant, subject to our existing obligations under the investors' rights agreement. In the event that we, at any time prior to the termination of the warrant pursuant to its terms, propose to file on behalf of one or more of our stockholders a registration statement under the Securities Act pursuant to the investors' rights agreement, we are required to provide written notice to the warrant holder as soon as practicable of such proposed filing, and the warrant holder shall have the right to include the applicable shares in such registration statement upon timely written notice. We are not required to file any registration statement pursuant to the warrant if at the time of such request (A) we are not eligible to file a Form S-3 for such sales, or (B) the warrant holder can sell all applicable shares without restriction pursuant to Rule 144 under the Securities Act.

Anti-Takeover Provisions

Section 203 of the Delaware General Corporation Law

We are subject to Section 203 of the DGCL, which prohibits a Delaware corporation from engaging in any business combination with any interested stockholder for a period of three years after the date that such stockholder became an interested stockholder, with the following exceptions:

- before such date, the board of directors of the corporation approved either the business combination or the transaction that resulted in the stockholder becoming an interested stockholder;
- upon completion of the transaction that resulted in the stockholder becoming an interested stockholder, the interested stockholder owned at least 85% of the voting stock of the corporation outstanding at the time the transaction began, excluding for purposes of determining the voting stock outstanding, but not the outstanding voting stock owned by the interested stockholder, those shares owned (i) by persons who are directors and also officers and (ii) employee stock plans in which employee participants do not have the right to determine confidentially whether shares held subject to the plan will be tendered in a tender or exchange offer; or
- on or after such date, the business combination is approved by the board of directors and authorized at an annual or special meeting of the stockholders, and not by written consent, by the affirmative vote of at least 66 2/3% of the outstanding voting stock that is not owned by the interested stockholder.

In general, Section 203 defines a "business combination" to include the following:

- any merger or consolidation involving the corporation or any direct or indirect majority-owned subsidiary of the corporation and the interested stockholder;
- any sale, transfer, pledge or other disposition of 10% or more of the assets of the corporation involving the interested stockholder (in one transaction or a series of transactions);
- subject to certain exceptions, any transaction that results in the issuance or transfer by the corporation or by any direct or indirect majority-owned subsidiary of the corporation of any stock of the corporation or of such subsidiary to the interested stockholder;
- any transaction involving the corporation or any direct or indirect majority-owned subsidiary of the corporation that has the effect of increasing the proportionate share of the stock or any class or series of the corporation beneficially owned by the interested stockholder; or
- the receipt by the interested stockholder of the benefit of any loans, advances, guarantees, pledges or other financial benefits by or through the corporation.

In general, Section 203 defines an "interested stockholder" as an entity or person who, together with the person's affiliates and associates, beneficially owns, or within three years prior to the time of determination of interested stockholder status did own, 15% or more of the outstanding voting stock of the corporation.

Amended and Restated Certificate of Incorporation and Amended and Restated Bylaws

The Certificate of Incorporation provides for each member of our board of directors to be elected at each annual meeting of stockholders for a term expiring at the next succeeding annual meeting of stockholders and until his or her successor is duly elected and qualified or until his or her earlier death, resignation or removal. Because our stockholders do not have cumulative voting rights, stockholders holding a majority of the shares of common stock outstanding are able to elect all of our directors. The Certificate of Incorporation provides that directors may be removed with or without cause by the affirmative vote of the holders of at least a majority of the voting power of all then-outstanding shares of capital stock entitled to vote generally at an election of directors. Furthermore, the authorized number of directors may be changed only by resolution of our board of directors, and vacancies and newly created directorships on our board of directors may, except as otherwise required by law or determined by our board and subject to the rights of any series of then-outstanding preferred stock, only be filled by a majority vote of the directors then serving on our board of directors, even though less than a quorum.

The Certificate of Incorporation and the Bylaws also provide that all stockholder actions must be effected at a duly called meeting of stockholders and eliminate the right of stockholders to act by written consent without a meeting. The Bylaws provide that only the chairman of the board of directors, the chief executive officer or the board of directors pursuant to a resolution adopted by a majority of the total number of authorized directors may call a special meeting of stockholders.

The Bylaws also provide that stockholders seeking to present proposals before a meeting of stockholders to nominate candidates for election as directors at a meeting of stockholders must provide timely advance notice in writing and specify requirements as to the form and content of a stockholder's notice.

The Certificate of Incorporation and the Bylaws provide that the stockholders cannot amend many of the provisions described above except by a vote of at least 66 2/3% of the voting power of all of the then-outstanding shares of capital stock entitled to vote generally at an election of directors.

The Certificate of Incorporation provides our board of directors the authority, without further action by our stockholders, to issue up to 10,000,000 shares of preferred stock in one or more series, with any rights, preferences and privileges as they may designate, including the right to approve an acquisition or other change in control.

The combination of these provisions makes it more difficult for our existing stockholders to replace our board of directors as well as for another party to obtain control of us by replacing our board of directors. Since our board of directors has the power to retain and discharge our officers, these provisions could also make it more difficult for existing stockholders or another party to effect a change in management. In addition, the authorization of undesignated preferred stock makes it possible for our board of directors to issue preferred stock with voting or other rights or preferences that could impede the success of any attempt to change control of us.

These provisions are intended to enhance the likelihood of continued stability in the composition of our board of directors and its policies and to discourage coercive takeover practices and inadequate takeover bids. These provisions are also designed to reduce our vulnerability to hostile takeovers and to discourage certain tactics that may be used in proxy fights. However, such provisions could have the effect of discouraging others from making tender offers for our shares and may have the effect of delaying changes in our control or management. As a consequence, these provisions may also inhibit fluctuations in the market price of our stock that could result from actual or rumored takeover attempts. We believe that the benefits of these provisions, including increased protection of our potential ability to negotiate with the proponent of an unfriendly or unsolicited proposal to acquire or restructure our company, outweigh the disadvantages of discouraging takeover proposals, because negotiation of takeover proposals could result in an improvement of their terms.

Choice of Forum

Our Certificate of Incorporation provides that the Court of Chancery of the State of Delaware will be the exclusive forum for the following types of actions or proceedings under Delaware statutory or common law:

- any derivative action or proceeding brought on our behalf;
- any action asserting a breach of fiduciary duty;
- any action asserting a claim against us arising pursuant to the DGCL, our Certificate of Incorporation, or our Bylaws;
- any claim or cause of action seeking to interpret, apply, enforce or determine the validity of the Certificate of Incorporation or the Bylaws;
- any claim or cause of action as to which the DGCL confers jurisdiction on the Court of Chancery of the State of Delaware; or
- any action asserting a claim against us that is governed by the internal affairs doctrine.

The provision would not apply to suits brought to enforce a duty or liability created by the Securities Act or the Exchange Act or any other claim for which the federal courts have exclusive jurisdiction. To the extent that any such claims may be based upon federal law claims, Section 27 of the Exchange Act creates exclusive federal jurisdiction over all suits brought to enforce any duty or liability created by the Exchange Act or the rules and regulations thereunder. Furthermore, Section 22 of the Securities Act creates concurrent jurisdiction for federal and state courts over all such Securities Act actions. Accordingly, both state and federal courts have jurisdiction to entertain such claims. To prevent having to litigate claims in multiple jurisdictions and the threat of inconsistent or contrary rulings by different courts, among other considerations, our Certificate of Incorporation also provides that unless we consent in writing to the selection of an alternative forum, the federal district courts of the United States of America shall be the exclusive forum for the resolution of any complaint asserting a cause of action arising under the Securities Act.

While the Delaware courts have determined that such choice of forum provisions are facially valid, a stockholder may nevertheless seek to bring a claim in a venue other than those designated in the exclusive forum provisions. In such instance, we would expect to vigorously assert the validity and enforceability of the exclusive forum provisions of our restated certificate of incorporation. This may require significant additional costs associated with resolving such action in other jurisdictions and there can be no assurance that the provisions will be enforced by a court in those other jurisdictions.

These exclusive forum provisions may result in increased costs for investors to bring a claim. Further, these exclusive forum provisions may limit a stockholder's ability to bring a claim in a judicial forum that it finds favorable for disputes with us or our directors, officers, or other employees, which may discourage lawsuits against us and our directors, officers and other employees. If a court were to find either exclusive-forum provision in our Certificate of Incorporation to be inapplicable or unenforceable in an action, we may incur further significant additional costs associated with resolving the dispute in other jurisdictions, all of which could seriously harm our business.

Our Certificate of Incorporation provides that the federal district courts of the United States of America will be the exclusive forum for resolving any complaint asserting a cause of action arising under the Securities Act, subject to and contingent upon a final adjudication in the State of Delaware of the enforceability of such exclusive forum provision.

Transfer Agent and Registrar

The transfer agent and registrar for our common stock is Equiniti Trust Company, LLC. The transfer agent's address is 6201 15th Avenue, Brooklyn, New York 11219.

Listing

Our common stock is listed on The Nasdaq Global Market under the trading symbol "TVVD".

DESCRIPTION OF OUR PREFERRED STOCK

We are authorized to issue up to 10,000,000 shares of preferred stock, par value \$0.0001 per share, all of which shares of preferred stock are currently undesignated.

Our board of directors may, without further action by our stockholders, from time to time, direct the issuance of shares of preferred stock in series and may, at the time of issuance, determine and fix the number of shares of such series of preferred stock and the designation of such series of preferred stock, the voting powers, if any, of the shares of such series of preferred stock, the preferences and relative, participating, optional or other special rights, if any, and the qualifications, limitations or restrictions thereof, including without limitation thereof, dividend rights, conversion rights, redemption privileges and liquidation preferences, of the shares of such series of preferred stock. Satisfaction of any dividend preferences of outstanding shares of our preferred stock would reduce the amount of funds available for the payment of dividends on shares of our common stock. Holders of shares of our preferred stock may be entitled to receive a preference payment in the event of any liquidation, dissolution or winding-up of our company before any payment is made to the holders of shares of our common stock. In some circumstances, the issuance of shares of preferred stock may render more difficult or tend to discourage a merger, tender offer or proxy contest, the assumption of control by a holder of a large block of our securities or the removal of incumbent management. Upon the affirmative vote of our board of directors, without stockholder approval, we may issue shares of preferred stock with voting and conversion rights which could adversely affect the holders of shares of our common stock. It is not possible to state the actual effect of the issuance of any shares of our preferred stock on the rights of holders of our common stock until the board of directors determines the specific rights attached to that preferred stock.

If we offer a specific series of preferred stock under this prospectus, we will describe the terms of the preferred stock in the prospectus supplement for such offering and will file a copy of the certificate establishing the terms of the preferred stock with the SEC. To the extent required, this description will include:

- the title and stated value;
- the number of shares of preferred stock offered, the liquidation preference per share, and the purchase price of preferred stock;
- the dividend rate(s), period(s), and/or payment date(s), or method(s) of calculation for such dividends;
- whether dividends will be cumulative or non-cumulative and, if cumulative, the date from which dividends will accumulate;
- the procedures for any auction and remarketing, if any;
- the provisions for a sinking fund, if any;
- the provisions for redemption, if applicable;
- any listing of the preferred stock on any securities exchange or market;
- whether the preferred stock will be convertible into our common stock or our other securities and, if applicable, the conversion price (or how it will be calculated), the conversion period and any other terms of conversion (including any anti-dilution provisions, if any);
- whether the preferred stock will be exchangeable into debt securities, and, if applicable, the exchange price (or how it will be calculated), the exchange period and any other terms of exchange (including any anti-dilution provisions, if any);
- voting rights, if any, of the preferred stock;
- a discussion of any material and/or special U.S. federal income tax considerations applicable to the preferred stock;

- the relative ranking and preferences of the preferred stock as to dividend rights and rights upon liquidation, dissolution, or winding up of our affairs;
- any material limitations on issuance of any class or series of preferred stock ranking senior to or on a parity with the series of preferred stock as to dividend rights and rights upon our liquidation, dissolution, or winding up; and
- any other affirmative, negative or other covenants or contractual rights which might be attendant with the specific series of preferred stock.

The preferred stock offered by this prospectus, when issued, will not have, or be subject to, any preemptive or similar rights.

Transfer Agent and Registrar

The transfer agent and registrar for any series of preferred stock will be set forth in each applicable prospectus supplement.

DESCRIPTION OF OUR WARRANTS

We may issue warrants to purchase shares of our common stock, preferred stock and/or debt securities in one or more series together with other securities or separately, as described in each applicable prospectus supplement. Below is a description of certain general terms and provisions of the warrants that we may offer. Particular terms of the warrants will be described in the applicable warrant agreements and the applicable prospectus supplement for the warrants.

The applicable prospectus supplement will contain, where applicable, the following terms of and other information relating to the warrants:

- the specific designation and aggregate number of the warrants, and the price at which we will issue such warrants;
- the currency or currency units in which the offering price, if any, and the exercise price are payable;
- the designation, amount and terms of the securities purchasable upon exercise of the warrants;
- if applicable, the exercise price for shares of our common stock and the number of shares of common stock to be received upon exercise of the warrants;
- if applicable, the exercise price for shares of our preferred stock, the number of shares of preferred stock to be received upon exercise of the warrants, and a description of that series of our preferred stock;
- if applicable, the exercise price for our debt securities, the amount of our debt securities to be received upon exercise of the warrants, and a description of that series of debt securities;
- the date on which the right to exercise the warrants will begin and the date on which that right will expire or, if the warrants may not be continuously exercised throughout that period, the specific date or dates on which the warrants may be exercised;
- whether the warrants will be issued in fully registered form or bearer form, in definitive or global form or in any combination of these forms, although, in any case, the form of a warrant included in a unit will correspond to the form of the unit and of any security included in that unit;
- any material U.S. federal income tax or foreign tax considerations applicable to the warrants;
- the identity of the warrant agent for the warrants, if any, and of any other depositaries, execution or paying agents, transfer agents, registrars or other agents;
- the proposed listing, if any, of the warrants or any securities purchasable upon exercise of the warrants on any securities exchange or market;
- if applicable, the date from and after which the warrants and the common stock, preferred stock and/or debt securities will be separately transferable;
- if applicable, the minimum or maximum amount of the warrants that may be exercised at any one time;
- information with respect to book-entry procedures, if any
- the anti-dilution provisions of the warrants, if any;
- any redemption, put or call provisions;
- whether the warrants are to be sold separately or with other securities as parts of units; and
- any additional terms of the warrants, including terms, procedures and limitations relating to the exchange and exercise of the warrants.

Transfer Agent and Registrar

The transfer agent and registrar for any warrants will be set forth in the applicable prospectus supplement.

Outstanding Warrants

As of September 22, 2025, we had an outstanding warrant to purchase shares of our common stock, a copy of which is filed as Exhibit 4.3 to our Current Report on Form 8-K filed with the SEC on March 23, 2023. The exercise price of the warrant is \$3.48 per share. The warrant is exercisable for up to an aggregate of 6,824,712 shares of common stock, and vests in three separate tranches as follows:

- 3,591,954 shares vest if our market capitalization equals or exceeds \$758,517,511 by November 15, 2028;
- 1,795,977 shares vest if our market capitalization equals or exceeds \$1,137,776,266 by November 15, 2029; and
- 1,436,781 shares vest if our market capitalization equals or exceeds \$1,517,035,022 by November 15, 2030.

As of September 22, 2025, no portion of the warrant had vested. With respect to any vested portion(s) of the warrant, the warrant is exercisable until the earlier of (i) 5:00 p.m. (New York City time) on November 15, 2032 and (ii) the closing of a fundamental transaction (as defined in the warrant). The warrant may be exercised by cash exercise or, at the election of the warrant holder, by means of "cashless exercise" pursuant to a formula set forth in the warrant. As discussed above, the warrant contains certain piggyback registration rights requiring us to register any shares of common stock underlying the warrant for resale with the SEC, subject to our existing obligations under the investors' rights agreement.

Upon the consummation of a fundamental transaction on or prior to November 15, 2028, all of the shares underlying the warrant would become immediately vested and exercisable; upon the consummation of a fundamental transaction after November 15, 2028 but on or prior to November 15, 2029, the shares underlying the second and third tranches of the warrant would become immediately vested and exercisable; and upon the consummation of a fundamental transaction after November 15, 2029 but on or prior to November 15, 2030, the shares underlying the third tranche of the warrant would become immediately vested and exercisable.

As of September 22, 2025, we had an outstanding pre-funded warrant to purchase shares of our common stock, a form of which is filed as Exhibit 4.1 to our Current Report on Form 8-K filed with the SEC on August 22, 2025. The exercise price of the pre-funded warrant is \$0.0001 per share. The pre-funded warrant is exercisable for up to an aggregate of 21,342,442 shares of common stock and is fully exercisable with no termination date.

DESCRIPTION OF OUR DEBT SECURITIES

This section describes the general terms and provisions of the debt securities that we may offer under this prospectus, any of which may be issued as convertible or exchangeable debt securities. We will set forth the particular terms of the debt securities we offer in a prospectus supplement. The extent, if any, to which the following general provisions apply to particular debt securities will be described in the applicable prospectus supplement. The following description of general terms relating to the debt securities and the indenture under which the debt securities will be issued are summaries only and therefore are not complete. You should read the indenture and the prospectus supplement regarding any particular issuance of debt securities.

We will issue the debt securities offered by this prospectus and any accompanying prospectus supplement under an indenture to be entered into between us and the trustee identified in the applicable prospectus supplement. The terms of the debt securities will include those stated in the indenture and those made part of the indenture by reference to the Trust Indenture Act of 1939, as in effect on the date of the indenture. We have filed or will file a copy of the form of indenture as an exhibit to the registration statement in which this prospectus is included. The indenture will be subject to and governed by the terms of the Trust Indenture Act of 1939.

We may offer under this prospectus up to an aggregate principal amount of \$350,000,000 in debt securities, or if debt securities are issued at a discount, or in a foreign currency, foreign currency units or composite currency, the principal amount as may be sold for an aggregate initial public offering price of up to \$350,000,000. Unless otherwise specified in the applicable prospectus supplement, the debt securities will represent direct, unsecured obligations of our company and will rank equally with all of our other unsecured indebtedness.

The following statements relating to the debt securities and the indenture are summaries, qualified in their entirety by reference to the detailed provisions of the indenture and the final form indenture as may be filed with a future prospectus supplement.

General

We may issue the debt securities in one or more series with the same or various maturities, at par, at a premium, or at a discount. We will describe the particular terms of each series of debt securities in a prospectus supplement relating to that series, which we will file with the SEC.

The prospectus supplement will set forth, to the extent required, the following terms of the debt securities in respect of which the prospectus supplement is delivered:

- the title of the series;
- the aggregate principal amount;
- the issue price or prices, expressed as a percentage of the aggregate principal amount of the debt securities;
- any limit on the aggregate principal amount;
- the date or dates on which the debt securities will be issued and on which principal of, and premium, if any, is payable;
- the interest rate or rates (which may be fixed or variable) or, if applicable, the method used to determine such rate or rates;
- the date or dates from which interest will accrue, the interest payment date or dates on which interest will be payable and any regular record date for the interest payable, and the basis upon which interest will be calculated if other than that of a 360-day year of twelve 30-day months;

- the place or places where principal and, if applicable, premium and interest, is payable;
- the terms and conditions upon which we may, or the holders may require us to, redeem or repurchase the debt securities;
- the denominations in which such debt securities may be issuable, if other than a minimum denomination of \$2,000 or an integral multiple of \$1,000 in excess thereof;
- whether the debt securities are to be issuable in the form of certificated debt securities (as described below) or global debt securities (as described below);
- the portion of principal amount that will be payable upon declaration of acceleration of the maturity date if other than the principal amount of the debt securities;
- the currency of denomination;
- the designation of the currency, currencies or currency units in which payment of principal and, if applicable, premium and interest, will be made;
- if payments of principal and, if applicable, premium or interest, on the debt securities are to be made in one or more currencies or currency units other than the currency of denomination, the manner in which the exchange rate with respect to such payments will be determined;
- if amounts of principal and, if applicable, premium and interest may be determined by reference to an index, including an index based on a currency or currencies other than in which the debt securities are payable, then the manner in which such amounts will be determined;
- the provisions, if any, relating to any collateral provided for such debt securities;
- whether the debt securities will be guaranteed by any person or persons and, if so, the identity of such person or persons, the terms and conditions upon which such debt securities shall be guaranteed and, if applicable, the terms and conditions upon which such guarantees may be subordinated to other indebtedness of the respective guarantors;
- any addition to or change in the covenants described in this prospectus or in the indenture;
- any events of default, if not otherwise described below under “Events of Default”;
- the terms and conditions, if any, for conversion into or exchange for shares of our common stock or preferred stock;
- any depositaries, interest rate calculation agents, exchange rate calculation agents or other agents;
- the terms and conditions, if any, upon which the debt securities shall be subordinated in right of payment to other indebtedness of our company; and
- any other terms of the debt securities of such series.

We may issue discount debt securities that provide for an amount less than the stated principal amount to be due and payable upon acceleration of the maturity of such debt securities in accordance with the terms of the indenture. We may also issue debt securities in bearer form, with or without coupons. If we issue discount debt securities or debt securities in bearer form, we will describe material U.S. federal income tax considerations and other material special considerations that apply to these debt securities in the applicable prospectus supplement.

We may issue debt securities denominated in or payable in a foreign currency or currencies or a foreign currency unit or units. If we do, we will describe the restrictions, elections, and general tax considerations relating to the debt securities and the foreign currency or currencies or foreign currency unit or units in the applicable prospectus supplement.

Exchange and/or Conversion Rights

We may issue debt securities which can be exchanged for or converted into shares of our common stock or preferred stock. If we do, we will describe the terms of exchange or conversion in the prospectus supplement relating to these debt securities.

Transfer and Exchange

We may issue debt securities that will be represented by either:

- “book-entry securities,” which means that there will be one or more global securities registered in the name of a depository or a nominee of a depository; or
- “certificated securities,” which means that they will be represented by a certificate issued in definitive registered form.

We will specify in the prospectus supplement applicable to a particular offering whether the debt securities offered will be book-entry or certificated securities.

Certificated Debt Securities

If you hold certificated debt securities issued under an indenture, you may transfer or exchange such debt securities in accordance with the terms of the indenture. You will not be charged a service charge for any transfer or exchange of certificated debt securities but may be required to pay an amount sufficient to cover any tax or other governmental charge payable in connection with such transfer or exchange.

Global Securities

The debt securities of a series may be issued in the form of one or more global securities that will be deposited with a depository or its nominees identified in the prospectus supplement relating to the debt securities. In such a case, one or more global securities will be issued in a denomination or aggregate denominations equal to the portion of the aggregate principal amount of outstanding debt securities of the series to be represented by such global security or securities.

Unless and until it is exchanged in whole or in part for debt securities in definitive registered form, a global security may not be registered for transfer or exchange except as a whole by the depository for such global security to a nominee of the depository and except in the circumstances described in the prospectus supplement relating to the debt securities. The specific terms of the depository arrangement with respect to a series of debt securities will be described in the prospectus supplement relating to such series.

Protection in the Event of Change of Control

Any provision in an indenture that governs our debt securities covered by this prospectus that includes any covenant or other provision providing for a put or increased interest or otherwise that would afford holders of our debt securities additional protection in the event of a recapitalization transaction, a change of control of our company, or a highly leveraged transaction will be described in the applicable prospectus supplement.

Covenants

Unless otherwise indicated in this prospectus or the applicable prospectus supplement, our debt securities may not have the benefit of any covenant that limits or restricts our business or operations, the pledging of our assets or the incurrence by us of indebtedness. We will describe in the applicable prospectus supplement any material covenants in respect of a series of debt securities.

Consolidation, Merger, Conveyance, Transfer or Lease

We may agree in any indenture that governs the debt securities of any series covered by this prospectus that we will not consolidate with or merge into any other person or convey, transfer or lease (as lessor) our properties and assets as, or substantially as, an entirety to any person, unless such person and such proposed transaction meets various criteria, which we will describe in detail in the applicable prospectus supplement.

Defaults and Notice

The debt securities of any series will contain events of default to be specified in the applicable prospectus supplement, which may include, without limitation:

- default in the payment of any interest upon any debt security of that series when it becomes due and payable, and continuance of such default for a period of 30 days;
- default in the payment of the principal of or any premium on any debt security of that series at its maturity;
- default in the deposit of any sinking fund payment, when and as due by the terms of a debt security of that series;
- default in the performance or breach of any other covenants or agreements in the indenture with respect to the debt securities of such series; and
- certain events relating to our bankruptcy, insolvency or reorganization.

If an event of default with respect to debt securities of any series shall occur and be continuing, we may agree that the trustee or the holders of at least 25% in aggregate principal amount of the then outstanding debt securities of such series may declare the principal amount (or, if the debt securities of such series are issued at an original issue discount, such portion of the principal amount as may be specified in the terms of the debt securities of such series) of all debt securities of such series or such other amount or amounts as the debt securities or supplemental indenture with respect to such series may provide, to be due and payable immediately. Any provisions pertaining to events of default and any remedies associated therewith will be described in the applicable prospectus supplement.

Any indenture that governs our debt securities covered by this prospectus may require that the trustee under such indenture shall, within 90 days after the occurrence of a default, give to holders of debt securities of any series notice of all uncured and unwaived defaults with respect to such series known to it. However, in the case of a default that results from the failure to make any payment of the principal of, premium, if any, or interest on the debt securities of any series, or in the payment of any sinking or purchase fund installment with respect to debt securities of such series, if any, the trustee may withhold such notice if it in good faith determines that the withholding of such notice is in the interest of the holders of debt securities of such series. Any terms and provisions relating to the foregoing types of provisions will be described in further detail in the applicable prospectus supplement.

Any indenture that governs our debt securities covered by this prospectus will contain a provision entitling the trustee to be indemnified by holders of debt securities before proceeding to exercise any trust or power under the indenture at the request of such holders. Any such indenture may provide that the holders of at least a majority in aggregate principal amount of the then outstanding debt securities of any series may direct the time, method and place of conducting any proceedings for any remedy available to the trustee, or of exercising any trust or power conferred upon the trustee with respect to the debt securities of such series. However, the trustee under any such indenture may decline to follow any such direction if, among other reasons, the trustee determines in good faith that the actions or proceedings as directed may not lawfully be taken, would involve the trustee in personal liability or would be unduly prejudicial to the holders of the debt securities of such series not joining in such direction.

Any indenture that governs our debt securities covered by this prospectus may endow the holders of such debt securities to institute a proceeding with respect to such indenture, subject to certain conditions, which will be specified in the applicable prospectus supplement and which may include, that the holders of at least a majority in aggregate principal amount of the debt securities of such series then outstanding make a written request upon the trustee to exercise its power under the indenture, indemnify the trustee and afford the trustee reasonable opportunity to act. Even so, such holders may have an absolute right to receipt of the principal of or premium, if any, and interest when due, to require conversion or exchange of debt securities if such indenture provides for convertibility or exchangeability at the option of the holder and to institute suit for the enforcement of such rights. Any terms and provisions relating to the foregoing types of provisions will be described in further detail in the applicable prospectus supplement.

Modification of the Indenture

We and the trustee may modify any indenture that governs our debt securities of any series covered by this prospectus with or without the consent of the holders of such debt securities, under certain circumstances to be described in a prospectus supplement.

Defeasance; Satisfaction and Discharge

The prospectus supplement will outline the conditions under which we may elect to have certain of our obligations under the indenture discharged and under which the indenture obligations will be deemed to be satisfied.

Regarding the Trustee

We will identify the trustee and any relationship that we may have with such trustee, with respect to any series of debt securities, in the prospectus supplement relating to the applicable debt securities. You should note that if the trustee becomes a creditor of us, the indenture and the Trust Indenture Act of 1939 limit the rights of the trustee to obtain payment of claims in certain cases, or to realize on certain property received in respect of any such claim, as security or otherwise. The trustee and its affiliates may engage in, and will be permitted to continue to engage in, other transactions with us and our affiliates. If, however, the trustee acquires any “conflicting interest” within the meaning of the Trust Indenture Act of 1939, it must eliminate such conflict or resign.

Governing Law

The law governing the indenture and the debt securities will be identified in the prospectus supplement relating to the applicable indenture and debt securities.

DESCRIPTION OF OUR UNITS

The following description, together with the additional information we include in any applicable prospectus supplement, summarizes the material terms and provisions of the units that we may offer under this prospectus. Units may be offered independently or together with one or more of the securities that may be offered under this prospectus, in any combination, and may be attached to or separate from those securities. While the terms we have summarized below will generally apply to any future units that we may offer under this prospectus, we will describe the particular terms of any series of units that we may offer in more detail in the applicable prospectus supplement. The terms of any units offered under a prospectus supplement may differ from the terms described below.

We will incorporate by reference into the registration statement of which this prospectus forms a part the form of unit agreement, including a form of unit certificate, if any, that describes the terms of the series of units we are offering before the issuance of the related series of units. The following summaries of material provisions of the units, and the unit agreements, are subject to, and qualified in their entirety by reference to, all the provisions of the unit agreement applicable to a particular series of units. We urge you to read the applicable prospectus supplements related to the units that we sell under this prospectus, as well as the complete unit agreements that contain the terms of the units.

General

We may issue units comprised of one or more of the securities that may be offered under this prospectus. Each unit will be issued so that the holder of the unit is also the holder of each security included in the unit. Thus, the holder of a unit will have the rights and obligations of a holder of each included security. The unit agreement under which a unit is issued may provide that the securities included in the unit may not be held or transferred separately, at any time or at any time before a specified date.

We will describe in the applicable prospectus supplement the terms of the series of units, including:

- the designation and the material terms of the units and of the securities comprising the units, including whether, and under what circumstances, those securities may be held or transferred separately;
- the rights and obligations of the unit agent, if any;
- the material U.S. federal income tax considerations applicable to the units;
- any material provisions of the governing unit agreement that differ from those described herein; and
- any material provisions for the issuance, payment, settlement, transfer or exchange of the units or of the securities comprising the units.

The provisions described in this section, as well as those described under “Description of Our Common Stock,” “Description of our Preferred Stock,” “Description of Our Debt Securities” and “Description of Our Warrants,” will apply to each unit and to any common stock, preferred stock, debt securities or warrants included in each unit, respectively.

Issuance in Series

We may issue units in such amounts and in numerous distinct series as we determine.

WHERE YOU CAN FIND MORE INFORMATION

We file annual, quarterly and current reports, proxy statements and other information with the SEC. The SEC maintains an Internet website at www.sec.gov that contains reports, proxy and information statements, and other information regarding issuers that file electronically with the SEC. Our reports on Forms 10-K, 10-Q and 8-K, and amendments to those reports, are also available for download, free of charge, as soon as reasonably practicable after these reports are filed with, or furnished to, the SEC, at our website at www.invivyd.com. Information contained on or accessible through our website is not a part of this prospectus or any prospectus supplement, and the inclusion of our website address in this prospectus is an inactive textual reference only.

INCORPORATION BY REFERENCE

The SEC allows us to “incorporate by reference” into this prospectus the information in other documents that we file with it. This means that we can disclose important information to you by referring you to those documents. The information incorporated by reference is considered to be a part of this prospectus, and information in documents that we file later with the SEC (and that is deemed to be “filed” with the SEC) will automatically update and supersede information contained in documents filed earlier with the SEC or contained in this prospectus. We incorporate by reference in this prospectus (i) the documents listed below, (ii) all documents that we file with the SEC under Section 13(a), 13(c), 14 or 15(d) of the Exchange Act after the date of the initial filing of the registration statement of which this prospectus is included and prior to the effectiveness of such registration statement, and (iii) any future filings that we may make with the SEC under Sections 13(a), 13(c), 14, or 15(d) of the Exchange Act prior to the termination of the offerings under this prospectus; provided, however, that we are not incorporating, in each case, any documents or information deemed to have been furnished and not filed, including any information that we disclose under Items 2.02 or 7.01 of any Current Report on Form 8-K, in accordance with SEC rules:

- our Annual Report on [Form 10-K](#) for the fiscal year ended December 31, 2024, filed with the SEC on March 20, 2025;
- the portions of our Definitive Proxy Statement on [Schedule 14A](#), filed with the SEC on April 7, 2025, that are incorporated by reference into Part III of our Annual Report on Form 10-K for the fiscal year ended December 31, 2024;
- our Quarterly Reports on Form 10-Q for the quarterly periods ended March 31, 2025 and June 30, 2025, filed with the SEC on [May 15, 2025](#) and [August 14, 2025](#), respectively;
- our Current Reports on Form 8-K (other than the portions thereof that are furnished and not filed) as filed with the SEC on [January 10, 2025](#), [January 27, 2025](#), [February 3, 2025](#), [February 24, 2025](#), [March 5, 2025](#), [March 26, 2025](#), [April 21, 2025](#), [April 25, 2025](#), [May 12, 2025](#), [May 15, 2025](#), [May 20, 2025](#), [June 26, 2025](#), [July 2, 2025](#), [August 14, 2025](#), [August 22, 2025](#) and [September 24, 2025](#); and
- the description of our common stock contained in our Registration Statement on [Form 8-A](#) filed on August 3, 2021, as updated by [Exhibit 4.2](#) to our Annual Report on Form 10-K for the fiscal year ended December 31, 2023, including any amendments or reports filed for the purpose of updating such description.

You may request, orally or in writing, a copy of any or all of the documents incorporated herein by reference. These documents will be provided to you at no cost by contacting: Invivyd, Inc., Corporate Secretary, at 209 Church Street, New Haven, CT 06510 or (781) 819-0080. In addition, copies of any or all of the documents incorporated herein by reference may be accessed at our website at www.invivyd.com. The information contained in, or that can be accessed through, our website address is not incorporated by reference into this prospectus and is not a part of this prospectus.

LEGAL MATTERS

The validity of the issuance of the securities offered hereby will be passed upon for us by Hogan Lovells US LLP, Philadelphia, Pennsylvania. As appropriate, legal counsel representing the underwriters, dealers or agents will be named in the accompanying prospectus supplement and may opine to certain legal matters.

EXPERTS

The financial statements incorporated in this prospectus by reference to the Annual Report on Form 10-K for the year ended December 31, 2024 have been so incorporated in reliance on the report (which contains an explanatory paragraph relating to the Company's ability to continue as a going concern as described in Note 1 to the financial statements) of PricewaterhouseCoopers LLP, an independent registered public accounting firm, given on the authority of said firm as experts in auditing and accounting.

INVIVYD

\$350,000,000

Common Stock
Preferred Stock
Warrants
Debt Securities
Units

PROSPECTUS

, 2025

SUBJECT TO COMPLETION, DATED OCTOBER 2, 2025

PROSPECTUS SUPPLEMENT
(To Prospectus dated _____, 2025)

INVIVYD

Up to \$75,000,000

Common Stock

We previously entered into a Controlled Equity OfferingSM Sales Agreement, or the Sales Agreement, with Cantor Fitzgerald & Co., or Cantor, relating to shares of our common stock, par value \$0.0001 per share, offered by this prospectus supplement and the accompanying prospectus. In accordance with the terms of the Sales Agreement, we may offer and sell shares of our common stock having an aggregate offering price of up to \$75,000,000 from time to time through Cantor, acting as sales agent, pursuant to this prospectus supplement.

Our common stock is listed on The Nasdaq Global Market under the symbol “IVVD.” On September 30, 2025, the last reported sale price of our common stock on The Nasdaq Global Market was \$1.10 per share.

Sales of our common stock, if any, under this prospectus supplement may be made in sales deemed to be “at the market offerings” as defined in Rule 415(a)(4) promulgated under the Securities Act of 1933, as amended, or the Securities Act, including sales made directly on or through The Nasdaq Global Market or any other existing trading market for the shares of our common stock. Subject to the terms of the Sales Agreement, Cantor is not required to sell any specific number or dollar amounts of common stock but will act as our sales agent using commercially reasonable efforts consistent with its normal trading and sales practices, on mutually agreed terms between Cantor and us. There is no arrangement for funds to be received in any escrow, trust or similar arrangement.

Cantor will be entitled to compensation under the terms of the Sales Agreement at a commission rate of 3.0% of the aggregate gross proceeds from each sale of our common stock pursuant to the Sales Agreement. In connection with the sale of our common stock on our behalf, Cantor will be deemed to be an “underwriter” within the meaning of the Securities Act and the compensation of Cantor will be deemed to be underwriting commissions or discounts. We have also agreed to provide indemnification and contributions to Cantor against certain civil liabilities, including liabilities under the Securities Act. See “Plan of Distribution.”

We are an “emerging growth company” as defined by the Jumpstart Our Business Startups Act of 2012, or the JOBS Act, and, as such, we are subject to reduced public company reporting requirements for this prospectus supplement and future filings. Refer to the section entitled “Implications of Being an Emerging Growth Company and a Smaller Reporting Company” beginning on page S-2 of this prospectus supplement for more information.

Investing in our common stock involves a high degree of risk. See “[Risk Factors](#)” beginning on page S-6 of this prospectus supplement and elsewhere in this prospectus supplement, the accompanying base prospectus and the other documents that are incorporated by reference in this prospectus supplement and the accompanying prospectus.

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

CANTOR

The date of this prospectus supplement is _____, 2025

The information contained in this prospectus supplement is not complete and may be changed. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This prospectus supplement is not an offer to sell these securities and it is not soliciting an offer to buy these securities in any state where such offer or sale is not permitted.

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ABOUT THIS PROSPECTUS SUPPLEMENT

This prospectus supplement is part of a registration statement that we filed on Form S-3 with the Securities and Exchange Commission, or SEC, on October 2, 2025 using a “shelf” registration process. By using a shelf registration statement, we may sell an unspecified amount of securities from time to time. Under this prospectus supplement, we may offer and sell shares of our common stock having an aggregate offering price of up to \$75,000,000 from time to time through Cantor acting as our agent or principal at prices and on terms to be determined by market conditions at the time of the offering. The \$75,000,000 of shares of our common stock that may be sold under this prospectus supplement are included in the \$350,000,000 of shares of common stock that may be sold under the registration statement.

This prospectus supplement describes the specific details regarding this offering and also adds to and updates information contained in the documents incorporated by reference into this prospectus supplement. To the extent there is a conflict between the information contained in this prospectus supplement, on the one hand, and the information contained in any document incorporated by reference in this prospectus supplement, on the other hand, you should rely on the information having a later date, as applicable. Before buying any of the shares of common stock offered hereby, we urge you to read carefully this prospectus supplement and the accompanying prospectus, together with the information incorporated herein by reference as described below under the heading “Incorporation of Certain Information by Reference.”

You should rely only on the information contained in, or incorporated by reference into, this prospectus supplement and the accompanying prospectus. We have not, and Cantor has not, authorized anyone to provide you with different or additional information.

We are not making offers to sell or solicitations to buy shares of our common stock in any jurisdiction in which an offer or solicitation is not authorized or in which the person making that offer or solicitation is not qualified to do so or to anyone to whom it is unlawful to make an offer or solicitation. You should assume that the information in this prospectus supplement and the accompanying prospectus is accurate only as of the date on the front of the respective document and that any information that we have incorporated by reference is accurate only as of the date of the document incorporated by reference, regardless of the time of delivery of this prospectus supplement or the accompanying prospectus or the time of any sale of shares of our common stock.

This prospectus supplement and the accompanying prospectus contain summaries of certain provisions contained in some of the documents described herein, but reference is made to the actual documents for complete information. All of the summaries are qualified in their entirety by the actual documents. Copies of some of the documents referred to herein have been filed, will be filed or will be incorporated herein by reference as exhibits to the registration statement, and you may obtain copies of those documents as described below under the section entitled “Where You Can Find More Information.”

We further note that the representations, warranties and covenants made by us in any agreement that is filed as an exhibit to any document that is incorporated by reference herein were made solely for the benefit of the parties to such agreement, including, in some cases, for the purpose of allocating risk among the parties to such agreements, and should not be deemed to be a representation, warranty or covenant to you. Moreover, such representations, warranties or covenants were accurate only as of the date when made. Accordingly, such representations, warranties and covenants should not be relied on as accurately representing the current state of our affairs.

This prospectus supplement and the accompanying prospectus contain and incorporate by reference market data and industry statistics and forecasts that are based on independent industry publications and other publicly-available information. Although we believe these sources are reliable, we do not guarantee the accuracy or completeness of this information and we have not independently verified this information. Although we are not aware of any misstatements regarding the market and industry data presented in this prospectus supplement, the

accompanying prospectus or the documents incorporated herein by reference, these estimates involve risks and uncertainties and are subject to change based on various factors, including those discussed under the headings “Risk Factors” in this prospectus supplement and the accompanying prospectus, and under similar headings in the other documents that are incorporated herein by reference. Accordingly, investors should not place undue reliance on this information.

References in this prospectus supplement to the terms “the Company,” “Invivyd,” “we,” “our” and “us” or other similar terms mean Invivyd, Inc. and our wholly-owned subsidiaries, unless we state otherwise or the context indicates otherwise.

“Invivyd,” “PEMGARDA,” “INVYTAB” as well as logos and certain stylized versions of these word marks are registered trademarks of Invivyd, Inc. This prospectus supplement and the accompanying prospectus and the documents incorporated by reference herein and therein may also contain trademarks and trade names that are the property of their respective owners. We do not intend our use or display of other companies’ trade names, trademarks or service marks to imply relationships with, or endorsements or sponsorship of us by, these other companies.

PROSPECTUS SUPPLEMENT SUMMARY

This summary highlights selected information about us and this offering and does not contain all of the information that you should consider in making your investment decision. You should carefully read this entire prospectus supplement and the accompanying prospectus, including the risks and uncertainties discussed under the heading "Risk Factors" beginning on page S-6 of this prospectus supplement, and the information incorporated by reference in this prospectus supplement and the accompanying prospectus, including our financial statements, before making an investment decision. If you invest in our securities, you are assuming a high degree of risk.

Company Overview

We are a biopharmaceutical company devoted to delivering protection from serious viral infectious diseases, beginning with SARS-CoV-2. PEMGARDA® (pemivibart) is our first monoclonal antibody, or mAb, to receive regulatory authorization and was designed to keep pace with SARS-CoV-2 viral evolution.

On March 22, 2024, we received emergency use authorization, or EUA, from the U.S. Food and Drug Administration, or FDA, for PEMGARDA injection, for intravenous use, a half-life extended investigational mAb, for the pre-exposure prophylaxis (prevention) of COVID-19 in adults and adolescents (12 years of age and older weighing at least 40 kg) who have moderate-to-severe immune compromise due to certain medical conditions or receipt of certain immunosuppressive medications or treatments and are unlikely to mount an adequate immune response to COVID-19 vaccination. Recipients should not be currently infected with or have had a known recent exposure to an individual infected with SARS-CoV-2.

In January 2024, we nominated VYD2311, a next generation mAb candidate for COVID-19, as a drug candidate, and in September 2024, we announced dosing of the first participants in a Phase 1/2 clinical trial of VYD2311. VYD2311 is a mAb with high in vitro neutralization potency shown against prominent SARS-CoV-2 variants tested to date. The Phase 1/2 randomized, blinded, placebo-controlled clinical trial evaluated escalating dosing as well as safety, tolerability, pharmacokinetics and immunogenicity of VYD2311 in healthy trial participants. The Phase 1/2 clinical trial was conducted in Australia and evaluated multiple dose levels of VYD2311 through various routes of administration, including exploration of intramuscular administration and subcutaneous administration, which are designed to be more system- and patient-friendly than intravenous administration. In June 2025, we announced positive full Phase 1/2 clinical data for VYD2311 for both safety and pharmacokinetics. In August 2025, we announced alignment with advice from the FDA on a compact and, therefore, rapid pathway to potential Biologics License Application, or BLA, approval for VYD2311 for the prevention of COVID-19. As part of a recent Type C meeting, the FDA advised us that a single, Phase 2/3 randomized, double-blind, placebo-controlled trial evaluating mAb efficacy from a relatively modest number of RT-PCR-confirmed symptomatic COVID-19 disease events could support a BLA submission for VYD2311 for the prevention of COVID-19 in a broad population of Americans (12 years of age and older, weighing at least 40kg), including immunocompromised people, subject to agreement on safety database size and pending full protocol review. Like pemivibart, VYD2311 was engineered from adintrevimab, our investigational mAb that has a robust safety data package and demonstrated clinically meaningful results in global Phase 2/3 clinical trials for both the prevention and treatment of COVID-19.

In July 2025, we announced that we had formed the SPEAR (Spike Protein Elimination and Recovery) Study Group with leading investigators to structure and guide anticipated clinical trials evaluating the effects of broadly neutralizing anti-SARS-CoV-2 spike protein mAb therapy in people suffering from Long COVID or Post- Vaccination Syndrome, or PVS. The SPEAR Study Group intends to launch multi-center translational clinical research on Long COVID and PVS using next-generation antibodies like our investigational mAb candidate VYD2311.

Globally, COVID-19 has caused millions of deaths and lasting health problems in many survivors and remains a significant global health concern, particularly for immunocompromised individuals. Isolation and mental health

impacts, absenteeism from work, and educational losses for children have been profound consequences of this crisis. COVID-19 persists and continues to impact patients, notably those who are immunocompromised, and combating this disease will require a variety of effective and safe prevention and treatment options for years to come. By leveraging our capabilities, which we have developed through our experience with adintrevimab and pemivibart and over five years in the COVID-19 space, we aim to develop mAbs that could be used in prevention or treatment of serious viral diseases, starting with COVID-19 and potentially expanding into other high-need indications.

PEMGARDA has not been approved, but has been authorized for emergency use by the FDA under an EUA, for pre-exposure prophylaxis of COVID-19 in certain adults and adolescent individuals (12 years of age and older weighing at least 40 kg). The emergency use of PEMGARDA is only authorized for the duration of the declaration that circumstances exist justifying the authorization of the emergency use of drugs and biological products during the COVID-19 pandemic under Section 564(b)(1) of the Federal Food, Drug, and Cosmetic Act, 21 U.S.C. § 360bbb-3(b)(1), unless the declaration is terminated or authorization revoked sooner. PEMGARDA is authorized for use only when the combined national frequency of variants with substantially reduced susceptibility to PEMGARDA is less than or equal to 90%, based on available information including variant susceptibility to PEMGARDA and national variant frequencies.

We engage in active SARS-CoV-2 variant monitoring of antiviral activity as part of our ongoing industrial virology effort, which leverages a consistent, high-quality, independent, third-party pseudoviral system that routinely tests authentic Invivyd-produced molecules and is supported by structure-based analytics. In September 2024, we announced continued neutralizing activity of PEMGARDA against SARS-CoV-2 variants KP.3.1.1 and LB.1, and attractive neutralization potency of VYD2311 against the same contemporary viruses, and also provided an update to ongoing structural analysis showing no meaningful mutational change in the pemivibart binding site since the Omicron shift late in 2021. In January 2025, March 2025 and August 2025, we announced continued neutralizing activity of PEMGARDA and VYD2311 against dominant SARS-CoV-2 variants XEC, LP.8.1 and XFG, respectively.

For more information about our company, please refer to other documents that we have filed with the SEC and that are incorporated by reference in this prospectus supplement, as listed under the heading “Incorporation of Certain Information by Reference.”

Corporate Information

We were incorporated under the laws of the State of Delaware in June 2020. We operate as a hybrid company. Our principal executive offices are located at 209 Church Street, New Haven, CT 06510 and our telephone number is (781) 819-0080. Our website address is www.invivyd.com. We do not incorporate the information on, or accessible through, our website into this prospectus, and you should not consider any information on, or accessible through, our website as part of this prospectus supplement.

Implications of Being an Emerging Growth Company and a Smaller Reporting Company

We are an “emerging growth company,” as defined in the JOBS Act and may remain an emerging growth company until the last day of the fiscal year following the fifth anniversary of the completion of our initial public offering. However, if certain events occur prior to the end of such five-year period, including if we become a “large accelerated filer,” our annual gross revenues exceed \$1.235 billion or we issue more than \$1.0 billion of non-convertible debt in the previous three-year period, we will cease to be an emerging growth company prior to the end of such five-year period. For so long as we remain an emerging growth company, we are permitted and intend to rely on exemptions from certain disclosure requirements that are applicable to other public companies that are not emerging growth companies. These exemptions include:

- an exemption from compliance with the auditor attestation requirement in the assessment of our internal control over financial reporting;

- reduced disclosure obligations regarding executive compensation;
- exemptions from the requirements of holding a non-binding advisory vote on executive compensation and stockholder approval of any golden parachute payments not previously approved; and
- an exemption from compliance with the requirements of the Public Company Accounting Oversight Board regarding the communication of critical audit matters in the auditor's report on the financial statements.

In addition, the JOBS Act provides that an emerging growth company can take advantage of an extended transition period for complying with new or revised accounting standards. This allows an emerging growth company to delay the adoption of these accounting standards until they would otherwise apply to private companies. We have elected to avail ourselves of this exemption from new or revised accounting standards and, therefore, may not be subject to the same new or revised accounting standards as other public companies that are not emerging growth companies. As a result, our financial statements may not be comparable to companies that comply with the new or revised accounting pronouncements as of public company effective dates.

We are also a "smaller reporting company" as defined in the Securities Exchange Act of 1934, as amended, or the Exchange Act. We may continue to be a smaller reporting company even after we are no longer an emerging growth company, which would allow us to take advantage of many of the same exemptions available to emerging growth companies. We will be able to take advantage of these scaled disclosures for so long as our voting and non-voting common stock held by non-affiliates is less than \$250.0 million measured on the last business day of our second fiscal quarter, or our annual revenue is less than \$100.0 million during the most recently completed fiscal year and our voting and non-voting common stock held by non-affiliates is less than \$700.0 million measured on the last business day of our second fiscal quarter. In addition, if we are a smaller reporting company with less than \$100.0 million in annual revenue, we would not be required to comply with the auditor attestation requirements of Section 404 of the Sarbanes-Oxley Act of 2002.

THE OFFERING

Common stock offered by us pursuant to this prospectus supplement	Shares of our common stock having an aggregate offering price of up to \$75,000,000.
Common stock to be outstanding after this offering	Up to 275,884,859 shares (as more fully described in the notes following this table), assuming sales of 61,475,409 shares of our common stock in this offering at an offering price of \$1.22 per share, which was the last reported sale price of our common stock on The Nasdaq Global Market on September 22, 2025. The actual number of shares issued will vary depending on the sales price under this offering.
Plan of Distribution	“At the market offering” as defined in Rule 415(a)(4) under the Securities Act, that may be made from time to time on The Nasdaq Global Market, the existing trading market for our common stock, through our sales agent, Cantor. See “Plan of Distribution” on page S-14 of this prospectus supplement.
Use of Proceeds	We intend to use the net proceeds from this offering to fund research and development related to VYD2311 and our other pipeline programs, launch readiness activities related to potential commercialization of VYD2311, commercialization costs related to PEMGARDA, and for working capital and other general corporate purposes. We may also use a portion of the net proceeds from this offering to acquire or invest in complementary businesses, technologies, additional product candidates or other intellectual property, although we have no present commitments or agreements to do so. See “Use of Proceeds” on page S-11 of this prospectus supplement.
Risk Factors	An investment in our common stock involves a high degree of risk. See the information contained in or incorporated by reference under “Risk Factors” beginning on page S-6 of this prospectus supplement, page 34 of our Annual Report on Form 10-K for the fiscal year ended December 31, 2024, page 39 of our Quarterly Report on Form 10-Q for the quarter ended June 30, 2025 and under similar headings in the other documents that are incorporated by reference herein, as well as the other information included in or incorporated by reference in this prospectus supplement and the accompanying prospectus.
The Nasdaq Global Market symbol	“IVVD”
Outstanding Shares	<p>The number of shares of our common stock to be outstanding after this offering is based on 214,409,450 shares of our common stock outstanding as of September 22, 2025. Unless specifically stated otherwise, the information in this prospectus supplement is as of September 22, 2025, and excludes:</p> <ul style="list-style-type: none">• 21,672,173 shares of our common stock issuable upon the exercise of stock options outstanding as of September 22, 2025 at a weighted-average exercise price of \$3.06 per share at that date;• 1,539,000 shares of our common stock issuable upon the vesting and settlement of restricted stock units outstanding as of September 22, 2025;

- 12,658,886 shares of our common stock reserved for future issuance under our 2021 Equity Incentive Plan, or the 2021 Plan, as of September 22, 2025;
- 6,824,712 shares of our common stock issuable upon exercise of warrants outstanding as of September 22, 2025 at a weighted-average exercise price of \$3.48 per share at that date;
- 589,957 shares of our common stock reserved for future issuance under our 2021 Employee Stock Purchase Plan, or the ESPP, as of September 22, 2025; and
- 21,342,442 shares of our common stock issuable upon exercise of pre-funded warrants outstanding as of September 22, 2025 at an exercise price of \$0.0001 per share.

Unless otherwise indicated, all information in this prospectus supplement reflects or assumes the following:

- Exclusion of the forfeiture of stock options to acquire 336,034 shares of our common stock subsequent to September 22, 2025 through September 30, 2025;
- No equity awards granted subsequent to September 22, 2025 through September 30, 2025;
- No exercise of stock options to acquire shares of our common stock subsequent to September 22, 2025 through September 30, 2025
- No exercise of the outstanding warrants or pre-funded warrants; and
- No vesting or settlement of restricted stock units subsequent to September 22, 2025 through September 30, 2025.

RISK FACTORS

Investing in our common stock involves a high degree of risk. Before investing in our common stock, you should carefully consider the risks described below, together with all of the other information contained in this prospectus supplement and the accompanying prospectus and incorporated by reference herein and therein, including from our most recent Annual Report on Form 10-K and any subsequent Quarterly Reports on Form 10-Q or Current Reports on Form 8-K, as well as any amendments or updates to our risk factors thereto reflected in subsequent filings with the SEC. Some of these factors relate principally to our business and the industry in which we operate. Other factors relate principally to your investment in our securities. The risks and uncertainties described therein and below are not the only risks facing us. Additional risks and uncertainties not presently known to us or that we currently deem immaterial may also materially and adversely affect our business and operations.

If any of the matters included in the following risks were to occur, our business, financial condition, results of operations, cash flows or prospects could be materially and adversely affected. In such case, you may lose all or part of your investment.

Risks Related to this Offering

A substantial number of shares of our common stock may be sold in the market following this offering, which may depress the market price for our common stock.

Sales of a substantial number of shares of our common stock in the public market following this offering could cause the market price of our common stock to decline. Although there can be no assurance that any of the \$75.0 million worth of shares of our common stock being offered under this prospectus supplement will be sold or the price at which any such shares might be sold, assuming that an aggregate of 61,475,409 shares of our common stock are sold for example, at a price of \$1.22 per share, the last reported sale price of our common stock on The Nasdaq Global Market on September 22, 2025, upon completion of this offering, based on our shares outstanding as of September 22, 2025, we will have outstanding an aggregate of 275,884,859 shares of common stock, assuming no exercise of our outstanding stock options or warrants or settlement of our outstanding restricted stock units. A substantial majority of the outstanding shares of our common stock are, and all of the shares of our common stock sold in this offering upon issuance will be, freely tradable without restriction or further registration under the Securities Act, unless these shares are owned or purchased by "affiliates" as that term is defined in Rule 144 under the Securities Act.

In addition, as of September 22, 2025, we had outstanding (i) options to purchase an aggregate of 21,672,173 shares of our common stock at a weighted-average exercise price of \$3.06 per share at that date, pursuant to our 2020 Equity Incentive Plan, or the 2020 Plan, and the 2021 Plan and (ii) 1,539,000 shares of common stock underlying restricted stock units, pursuant to the 2021 Plan. As of September 22, 2025, there were no shares of our common stock reserved for future issuance under the 2020 Plan, 12,658,886 shares of our common stock reserved for future issuance under our 2021 Plan and 589,957 shares of our common stock reserved for future issuance under our ESPP. From September 23, 2025 through September 30, 2025, stock options to acquire 336,034 shares of our common stock were forfeited. As of September 30, 2025, there were no shares of our common stock reserved for future issuance under the 2020 Plan, 12,921,920 shares of our common stock reserved for future issuance under our 2021 Plan and 589,957 shares of our common stock reserved for future issuance under our ESPP. The shares of our common stock issuable under the 2020 Plan, the 2021 Plan and the ESPP may be immediately eligible for resale in the open market. Such shares, along with any other market transactions, could adversely affect the market price of our common stock. Additional dilution may result from the issuance of shares of our common stock in connection with additional financings or in connection with commercial transactions.

Moreover, if we issue options, restricted stock units, warrants or other securities to purchase or acquire our common stock in the future and those options, restricted stock units, warrants or other securities are exercised,

converted or settled you may experience further dilution. Holders of shares of our common stock have no preemptive rights that entitle them to purchase their pro rata share of any offering of shares of any class or series.

You may experience immediate and substantial dilution.

The offering price per share in this offering may exceed the pro forma as-adjusted net tangible book value per share of our common stock outstanding prior to this offering. Assuming that an aggregate of 61,475,409 shares of our common stock are sold at a price of \$1.22 per share, the last reported sale price of our common stock on The Nasdaq Global Market on September 22, 2025, for aggregate gross proceeds of \$75.0 million, and after deducting commissions and estimated offering expenses payable by us, you will experience immediate dilution of \$0.64 per share, representing the difference between our pro forma as-adjusted net tangible book value per share as of June 30, 2025 after giving effect to this offering and the assumed offering price. The exercise of outstanding stock options and warrants and the settlement of our outstanding restricted stock units will result in further dilution of your investment. See the section entitled “Dilution” below for a more detailed illustration of the dilution you would incur if you participate in this offering.

You may experience future dilution as a result of future equity offerings or other equity issuances.

In order to raise additional capital, we may in the future offer and issue additional shares of our common stock or other securities convertible into, exercisable or exchangeable for, or settled in, our common stock. We cannot assure you that we will be able to sell shares of our common stock or other securities in any other offering at a price per share that is equal to or greater than the price per share paid by investors in this offering, and investors purchasing shares or other securities in the future could have rights superior to existing stockholders. The price per share at which we sell additional shares of our common stock or other securities convertible into, exercisable or exchangeable for, or settled in, our common stock in future transactions may be higher or lower than the price per share in this offering. As of September 22, 2025, we had reserved 64,627,170 shares of our common stock for issuance upon the exercise of outstanding stock options and warrants, the settlement of our outstanding restricted stock units and the issuance of awards available for grant under our 2020 Plan, 2021 Plan and ESPP. You will incur dilution upon the issuance of any shares of our common stock pursuant to such plans, upon vesting and settlement of any stock awards under any such plan, upon exercise of any such outstanding options, or upon the vesting and settlement of any warrants issued outside of any such plan.

We have broad discretion in how we use the net proceeds of this offering and, despite our efforts, we may not use these net proceeds effectively or in ways with which you agree.

We intend to use the net proceeds from this offering to fund research and development related to VYD2311 and our other pipeline programs, launch readiness activities related to potential commercialization of VYD2311, commercialization costs related to PEMGARDA, and for working capital and other general corporate purposes. We may also use a portion of the net proceeds from this offering to acquire or invest in complementary businesses, technologies, additional product candidates or other intellectual property, although we have no present commitments or agreements to do so. However, we have not determined the specific allocation of the net proceeds among these potential uses. Our management will have broad discretion over the use and investment of the net proceeds of this offering, and, accordingly, investors in this offering will need to rely upon the judgment of our management with respect to the use of proceeds, with only limited information concerning our specific intentions. Our stockholders may not agree with the manner in which our management chooses to allocate and spend the net proceeds. Moreover, our management may use the net proceeds for corporate purposes that may not increase the market price of our common stock. Please see the section entitled “Use of Proceeds” on page S-11 of this prospectus supplement for further information.

We do not anticipate paying any cash dividends on our capital stock in the foreseeable future; accordingly, capital appreciation, if any, will be your sole source of gain and you may never receive a return on your investment.

We have never declared or paid cash dividends on our capital stock, and you should not rely on an investment in our common stock to provide dividend income. We currently intend to retain all of our future earnings, if any, to finance the growth and development of our business and do not anticipate declaring or paying any cash dividends for the foreseeable future. As a result, capital appreciation, if any, of our common stock will be your sole source of gain for the foreseeable future. Furthermore, we may in the future become subject to additional contractual restrictions on, or prohibitions against, the payment of dividends.

It is not possible to predict the aggregate proceeds resulting from sales made under the Sales Agreement, or the actual number of shares that we will issue under the Sales Agreement.

Subject to certain limitations in the Sales Agreement and compliance with applicable law, we have the discretion to deliver a placement notice to Cantor at any time throughout the term of the Sales Agreement. The number of shares of our common stock that are sold through Cantor after delivering a placement notice will fluctuate based on a number of factors, including the market price of our common stock during the sales period, any limits we may set with Cantor in any applicable placement notice and the demand for our common stock. Because this offering can be terminated at any time and the price per share of each share sold pursuant to the Sales Agreement will fluctuate over time, it is not currently possible to predict the aggregate proceeds to be raised or the number of shares of our common stock that will be issued in connection with sales under the Sales Agreement.

Sales of common stock offered hereby will be in “at the market offerings,” and investors who buy shares at different times will likely pay different prices.

Investors who purchase shares of our common stock in this offering at different times will likely pay different prices, and accordingly may experience different levels of dilution and different outcomes in their investment results. We will have discretion, subject to market demand, to vary the timing, prices and number of shares of our common stock sold in this offering. In addition, subject to the final determination by our board of directors or a committee thereof, or any restrictions we may place in any applicable placement notice delivered to Cantor, there is no minimum or maximum sales price for shares of our common stock to be sold in this offering. Investors may experience a decline in the value of the shares of our common stock they purchase in this offering as a result of sales made at prices lower than the prices they paid.

NOTE REGARDING FORWARD-LOOKING STATEMENTS

Various statements made in this prospectus supplement are forward-looking and involve risks and uncertainties. All statements that address activities, events or developments that we intend, expect or believe may occur in the future are forward-looking statements within the meaning of Section 27A of the Securities Act and Section 21E of the Exchange Act. Such statements give our current expectations or forecasts of future events and are not statements of historical or current facts. These statements include, among others, statements about:

- our plans related to the commercialization of PEMGARDA® (pemivibart), which received an EUA from the FDA, in March 2024, including our expectations about the potential market opportunity;
- the design of PEMGARDA to keep pace with SARS-CoV-2 viral evolution;
- our expectations regarding VYD2311, our next generation mAb candidate for COVID-19, and the potential of VYD2311 to offer the ability to deliver clinically meaningful titer levels through more system- and patient-friendly means;
- our expectations regarding availability of a rapid pathway to potential BLA approval for VYD2311 for the prevention of COVID-19 and the compact pivotal clinical trial that could support it;
- the anticipated timing, design, progress and results of preclinical studies and clinical trials of our product candidates, including statements regarding initiation or completion of studies or trials and related preparatory work, the period during which results of any studies or trials will become available, and potential regulatory submissions;
- our devotion to delivering protection from serious viral infectious diseases, and our aim to develop mAbs that could be used in prevention or treatment of serious viral diseases, starting with COVID-19 and potentially expanding into other high-need indications;
- our discovery efforts to assess pipeline expansion beyond SARS-CoV-2, including potential targets such as respiratory syncytial virus and measles;
- our goal of establishing streamlined development pathways to efficiently introduce new mAb candidates targeting SARS-CoV-2;
- our expectations regarding the regulatory pathway for our product candidates, including the anticipated timing of any submission of filings for regulatory authorization or approval of, and our ability to obtain and maintain regulatory authorizations or approvals for, our product candidates;
- our plans regarding SARS-CoV-2 variant monitoring of antiviral activity as part of our ongoing industrial virology effort;
- our expectations regarding the size of the patient populations, market acceptance and opportunity for and clinical utility of our product candidates, if authorized or approved for commercial use;
- our manufacturing capabilities and strategy, and our expectations regarding supply and demand of our product candidates;
- our ability to successfully commercialize our product candidates, if authorized or approved, including our distribution capabilities and strategy;
- our ability to identify and develop future product candidates;
- our expectations regarding the SPEAR Study Group, including its anticipated focus, goals and plans;
- our estimates of our expenses, ongoing losses, future potential revenue, capital requirements and our need for or ability to obtain additional funding;
- our expectations regarding our ability to continue as a going concern;

- our competitive position and the development of and projections relating to our competitors or our industry; and
- our intended use of proceeds from this offering.

We cannot guarantee that the results and other expectations expressed, anticipated or implied in any forward-looking statement will be realized. The risks set forth under Item 1A of our Annual Report on Form 10-K for the fiscal year ended December 31, 2024 and any supplementary risks set forth under Item 1A of our Quarterly Reports on Form 10-Q and other documents we file with the SEC describe major risks to our business, and you should read and interpret any forward-looking statements together with these risks. A variety of factors, including these risks, could cause our actual results and other expectations to differ materially from the anticipated results or other expectations expressed, anticipated or implied in our forward-looking statements. You should read and interpret any forward-looking statements in light of these risks. Should known or unknown risks materialize, or should underlying assumptions prove inaccurate, actual results could differ materially from past results and those anticipated, estimated or projected in the forward-looking statements. You should bear this in mind as you consider any forward-looking statements.

You should read this prospectus supplement, the base prospectus and the documents that we incorporate by reference herein and therein completely and with the understanding that our actual future results may be materially different from what we expect. The forward-looking statements contained in this prospectus supplement are made as of the date of this prospectus supplement and we do not assume any obligation to update any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by applicable law.

USE OF PROCEEDS

We may issue and sell shares of common stock having aggregate sales proceeds of up to \$75.0 million from time to time, before deducting sales agent commissions and expenses. The amount of proceeds from this offering will depend upon the number of shares of our common stock sold and the market price at which they are sold. There can be no assurance that we will be able to sell any shares of our common stock under, or fully utilize, the Sales Agreement as a source of financing.

We intend to use the net proceeds from this offering to fund research and development related to VYD2311 and our other pipeline programs, launch readiness activities related to potential commercialization of VYD2311, commercialization costs related to PEMGARDA, and for working capital and other general corporate purposes. We may also use a portion of the net proceeds from this offering to acquire or invest in complementary businesses, technologies, additional product candidates or other intellectual property, although we have no present commitments or agreements to do so.

The amounts and timing of our use of the net proceeds from this offering will depend on a number of factors, such as the timing and progress of our commercialization efforts, research and development efforts, the timing and progress of any partnering efforts, technological advances and the competitive environment for our product candidates. As of the date of this prospectus supplement, we cannot specify with certainty all of the particular uses for the net proceeds to us from the sale of the shares of common stock offered by us hereunder. Accordingly, our management will have broad discretion in the timing and application of these proceeds. Pending application of the net proceeds as described above, we intend to temporarily invest the proceeds in short-term, interest-bearing instruments.

DILUTION

Purchasers of common stock in this offering will experience immediate dilution to the extent of the difference between the public offering price per share of common stock and the pro forma as-adjusted net tangible book value per share of common stock immediately after this offering.

Our net tangible book value as of June 30, 2025 was approximately \$42.8 million, or \$0.36 per share of common stock. Net tangible book value per share is determined by dividing total tangible assets less total liabilities, excluding items such as intangibles, by the aggregate number of shares of common stock outstanding as of June 30, 2025.

Our pro forma net tangible book value as of June 30, 2025 was approximately \$96.3 million, or \$0.42 per share of common stock. Pro forma net tangible book value per share represents net tangible book value divided by the number of shares of our common stock outstanding, after giving effect to our issuance and sale of (i) 89,234,480 shares of our common stock at the public offering of \$0.52 per share and (ii) pre-funded warrants to purchase up to 21,342,442 shares of our common stock at the public offering price of \$0.5199 per pre-funded warrant, including shares of common stock issuable upon exercise of the pre-funded warrants, and after deducting the underwriting discounts and commissions and the estimated offering expenses payable by us, subsequent to June 30, 2025, in connection with our August 2025 underwritten public offering of securities, or the August 2025 Offering.

Dilution per share to new investors represents the difference between the amount per share paid by purchasers of our common stock in this offering and the pro forma as-adjusted net tangible book value per share of our common stock immediately following the completion of this offering.

After giving effect to the sale of shares of common stock offered by this prospectus supplement at an assumed public offering price of \$1.22 per share of common stock (the last reported sale price of our common stock on The Nasdaq Global Market on September 22, 2025), and after deducting the commissions and estimated aggregate offering expenses payable by us, our pro forma as-adjusted net tangible book value as of June 30, 2025 would have been approximately \$169.1 million, or \$0.58 per share of common stock. This represents an immediate increase in pro forma net tangible book value of \$0.16 per share to our existing stockholders and an immediate dilution of \$0.64 per share of common stock issued to the new investors purchasing securities in this offering, as illustrated by the following table:

Assumed public offering price per share of common stock	\$1.22
Net tangible book value per share as of June 30, 2025	\$0.36
Increase in net tangible book value per share attributable to our issuance of common stock and pre-funded warrants pursuant to the August 2025 Offering	<u>\$0.06</u>
Pro forma net tangible book value per share as of June 30, 2025	\$0.42
Increase in pro forma net tangible book value per share attributable to purchasers in this offering	<u>\$0.16</u>
Pro forma as-adjusted net tangible book value per share as of June 30, 2025, after giving effect to this offering	\$0.58
Dilution per share to new investors	<u>\$0.64</u>

The table above assumes for illustrative purposes that an aggregate of 61,475,409 shares of our common stock are sold at a price of \$1.22 per share, the last reported sale price of our common stock on The Nasdaq Global Market on September 22, 2025, for aggregate gross proceeds of approximately \$75.0 million. The shares sold in this offering, if any, will be sold from time to time at various prices. The information discussed above is illustrative only and may differ based on the actual offering price and the actual number of shares offered.

The above table is based on 120,142,811 shares of our common stock outstanding as of June 30, 2025, plus the common stock and the shares of common stock issuable upon exercise of the pre-funded warrants issued in the August 2025 Offering. Unless specifically stated otherwise, the information in this prospectus supplement is as of September 22, 2025, and excludes:

- 21,672,173 shares of our common stock issuable upon the exercise of stock options outstanding as of September 22, 2025 at a weighted-average exercise price of \$3.06 per share at that date;
- 1,539,000 shares of our common stock issuable upon the vesting and settlement of restricted stock units outstanding as of September 22, 2025;
- 12,658,886 shares of our common stock reserved for future issuance under the 2021 Plan as of September 22, 2025;
- 6,824,712 shares of our common stock issuable upon exercise of warrants outstanding as of September 22, 2025, at a weighted-average exercise price of \$3.48 per share at that date;
- 589,957 shares of our common stock reserved for future issuance under the ESPP as of September 22, 2025; and
- 21,342,442 shares of our common stock issuable upon exercise of pre-funded warrants outstanding as of September 22, 2025 at an exercise price of \$0.0001 per share.

Except as otherwise indicated, the information in this prospectus supplement reflects or assumes (i) no exercise of any outstanding stock options, warrants or prefunded warrants and no vesting or settlement of restricted stock units since September 22, 2025, (ii) forfeiture of stock options to acquire 336,034 shares of our common stock subsequent to September 22, 2025 through September 30, 2025 and (iii) no equity awards granted subsequent to September 22, 2025 through September 30, 2025.

To the extent that options or warrants are exercised, restricted stock units are settled or if we issue options, restricted stock units, warrants or other securities to purchase or acquire our common stock in the future and those options, restricted stock units, warrants or other securities are exercised, converted or settled, you may experience further dilution. In addition, we may choose to raise additional capital because of market conditions or strategic considerations, even if we believe that we have sufficient funds for our current or future operating plans. If we raise additional capital through the sale of equity or convertible debt securities, the issuance of these securities could result in further dilution to our stockholders.

PLAN OF DISTRIBUTION

We previously entered into a Controlled Equity OfferingSM Sales Agreement, or the Sales Agreement, with Cantor Fitzgerald & Co., or Cantor. Pursuant to this prospectus supplement, we may offer and sell shares of our common stock having an aggregate gross sales price of up to \$75,000,000 from time to time through Cantor acting as sales agent. A copy of the Sales Agreement has been filed as an exhibit to the registration statement of which this prospectus supplement forms a part.

Upon delivery of a placement notice and subject to the terms and conditions of the Sales Agreement, Cantor may sell shares of our common stock by any method permitted by law deemed to be an “at the market offering” as defined in Rule 415(a)(4) promulgated under the Securities Act. We may instruct Cantor not to sell our common stock if the sales cannot be effected at or above the price designated by us from time to time. We or Cantor may suspend the offering of our common stock upon notice and subject to other conditions.

We will pay Cantor commissions, in cash, for its service in acting as agent in the sale of our common stock. Cantor will be entitled to compensation at a commission rate of 3.0% of the aggregate gross proceeds from each sale of our common stock pursuant to the Sales Agreement. Because there is no minimum offering amount required as a condition to close this offering, the actual total public offering amount, commissions and proceeds to us, if any, are not determinable at this time. We have also agreed to reimburse Cantor for certain specified expenses, including the fees and disbursements of its legal counsel in an amount not to exceed (a) \$75,000 payable in connection with the entry into the Sales Agreement and (b) \$15,000 per calendar quarter thereafter pursuant to the terms of the Sales Agreement, and certain other ongoing expenses. We estimate that the total expenses for this offering, excluding compensation and reimbursements payable to Cantor under the terms of the Sales Agreement, will be approximately \$300,000.

Settlement for sales of shares of our common stock will occur on the first business day following the date on which any sales are made, or on some other date that is agreed upon by us and Cantor in connection with a particular transaction, in return for payment of the net proceeds to us. Sales of our common stock as contemplated by this prospectus supplement will be settled through the facilities of The Depository Trust Company or by such other means as we and Cantor may agree upon. There is no arrangement for funds to be received in an escrow, trust or similar arrangement.

Cantor will use its commercially reasonable efforts, consistent with its sales and trading practices, to solicit offers to purchase our common stock pursuant to the terms and subject to the conditions set forth in the Sales Agreement. In connection with the sale of our common stock on our behalf, Cantor will be deemed to be an “underwriter” within the meaning of the Securities Act and the compensation of Cantor will be deemed to be underwriting commissions or discounts. We have agreed to provide indemnification and contribution to Cantor against certain civil liabilities, including liabilities under the Securities Act.

The offering of shares of our common stock pursuant to the Sales Agreement will terminate upon the termination of the Sales Agreement as permitted therein. We and Cantor may each terminate the Sales Agreement at any time upon ten days’ prior notice.

Cantor and its affiliates may in the future provide various investment banking, commercial banking and other financial services for us and our affiliates, for which services they may in the future receive customary fees. To the extent required by Regulation M, Cantor will not engage in any market making activities involving our common stock while this offering is ongoing.

This prospectus supplement and the accompanying prospectus may be made available in electronic format on a website maintained by Cantor, and Cantor may distribute this prospectus supplement and the accompanying prospectus electronically.

LEGAL MATTERS

The validity of the securities we are offering will be passed upon by Hogan Lovells US LLP, Philadelphia, Pennsylvania. Cantor Fitzgerald & Co. is being represented in connection with this offering by Cooley LLP, New York, New York.

EXPERTS

The financial statements incorporated in this prospectus supplement by reference to the Annual Report on Form 10-K for the year ended December 31, 2024 have been so incorporated in reliance on the report (which contains an explanatory paragraph relating to the Company's ability to continue as a going concern as described in Note 1 to the financial statements) of PricewaterhouseCoopers LLP, an independent registered public accounting firm, given on the authority of said firm as experts in auditing and accounting.

WHERE YOU CAN FIND MORE INFORMATION

With respect to the statements contained in this prospectus supplement regarding the contents of any agreement or any other document, in each instance, the statement is qualified in all respects by the complete text of the agreement or document, a copy of which has been filed as an exhibit to, or incorporated by reference into, the registration statement.

Because we are subject to the information and reporting requirements of the Exchange Act, we file annual, quarterly and current reports, proxy statements and other information with the SEC. Our SEC filings are available to the public over the Internet at the SEC's website at www.sec.gov.

We make available free of charge on our website at www.invivyd.com our annual, quarterly and current reports, including amendments to such reports, as soon as reasonably practicable after we electronically file such material with, or furnish such material to, the SEC. Please note, however, that we have not incorporated any other information by reference from our website, other than the documents listed under the heading "Incorporation of Certain Information by Reference" on page S-18 of this prospectus supplement. In addition, you may request copies of these filings at no cost by writing or telephoning us at the following address or telephone number:

Invivyd, Inc.
209 Church Street
New Haven, CT 06510
Telephone: (781) 819-0080

INCORPORATION OF CERTAIN INFORMATION BY REFERENCE

We have filed with the SEC a registration statement on Form S-3 under the Securities Act, of which this prospectus supplement forms a part. The rules and regulations of the SEC allow us to omit from this prospectus supplement certain information included in the registration statement. For further information about us and the securities we are offering under this prospectus, you should refer to the registration statement and the exhibits and schedules filed with the registration statement. The SEC allows us to “incorporate by reference” information into this prospectus supplement. This means that we can disclose important information to you by referring you to other documents we have filed separately with the SEC, without actually including the specific information in this prospectus supplement. The information incorporated by reference is considered to be a part of this prospectus supplement, and information in documents that we file later with the SEC (and that is deemed to be “filed” with the SEC) will automatically update and supersede information contained in documents filed earlier with the SEC or contained in this prospectus supplement. We incorporate by reference in this prospectus supplement (i) the documents listed below, (ii) all documents that we file with the SEC under Section 13(a), 13(c), 14, or 15(d) of the Exchange Act after the date of the initial filing of the registration statement of which this prospectus supplement forms a part and prior to the effectiveness of such registration statement, and (iii) any future filings that we may make with the SEC under Sections 13(a), 13(c), 14, or 15(d) of the Exchange Act prior to the termination of the offering under this prospectus supplement; provided, however, that we are not incorporating, in each case, any documents or information deemed to have been furnished and not filed, including any information that we disclose under Items 2.02 or 7.01 of any Current Report on Form 8-K, in accordance with SEC rules:

- our Annual Report on [Form 10-K](#) for the fiscal year ended December 31, 2024, filed with the SEC on March 20, 2025;
- the portions of our Definitive Proxy Statement on [Schedule 14A](#), filed with the SEC on April 7, 2025, that are incorporated by reference into Part III of our Annual Report on Form 10-K for the fiscal year ended December 31, 2024;
- our Quarterly Reports on Form 10-Q for the quarterly periods ended March 31, 2025 and June 30, 2025, filed with the SEC on [May 15, 2025](#) and [August 14, 2025](#), respectively;
- our Current Reports on Form 8-K (other than the portions thereof that are furnished and not filed) as filed with the SEC on [January 10, 2025](#), [January 27, 2025](#), [February 3, 2025](#), [February 24, 2025](#), [March 5, 2025](#), [March 26, 2025](#), [April 21, 2025](#), [April 25, 2025](#), [May 12, 2025](#), [May 15, 2025](#), [May 20, 2025](#), [June 26, 2025](#), [July 2, 2025](#), [August 14, 2025](#), [August 22, 2025](#) and [September 24, 2025](#); and
- the description of our common stock contained in our Registration Statement on [Form 8-A](#) filed on August 3, 2021, as updated by [Exhibit 4.2](#) to our Annual Report on Form 10-K for the fiscal year ended December 31, 2023, including any amendments or reports filed for the purpose of updating such description.

To obtain copies of these filings, see “Where You Can Find More Information” on page S-17 of this prospectus supplement.

INVIVYD

**Up to \$75,000,000
Common Stock**

PROSPECTUS SUPPLEMENT

CANTOR

, 2025

PART II
INFORMATION NOT REQUIRED IN THE PROSPECTUS

Item 14. Other Expenses of Issuance and Distribution.

Set forth below is an estimate (except in the case of the registration fee) of the amount of fees and expenses to be incurred in connection with the issuance and distribution of the offered securities registered hereby, other than underwriting discounts and commission, if any, incurred in connection with the sale of the offered securities. All such amounts will be borne by Invivyd, Inc.

	Amount to be paid
SEC registration fee	\$7,266.95
Printing expenses	\$ (1)
Accounting fees and expenses	\$ (1)
Legal fees and expenses	\$ (1)
Miscellaneous	\$ (1)
Total	\$ (1)

(1) These fees are calculated based on the securities offered and the number of issuances and accordingly cannot be estimated at this time.

Item 15. Indemnification of Directors and Officers.

We are incorporated under the laws of the State of Delaware. Section 102(b)(7) of the Delaware General Corporation Law, or the DGCL, generally permits a corporation to provide in its certificate of incorporation that a director or officer of the corporation shall not be personally liable to the corporation or its stockholders for monetary damages for breach of fiduciary duty as a director or officer, except for liability for (i), with respect to directors and officers, any breach of the director's or officer's duty of loyalty to the corporation or its stockholders; (ii), with respect to directors and officers, acts or omissions not in good faith or which involve intentional misconduct or a knowing violation of law; (iii), with respect to directors, payments of unlawful dividends or unlawful stock repurchases or redemptions under Section 174 of the DGCL; (iv), with respect to directors and officers, any transaction from which the director or officer derived an improper personal benefit; or (v), with respect to officers, any action by or in the right of the corporation.

Section 145 of the DGCL provides that a corporation has the power to indemnify a director, officer, employee or agent of the corporation and certain other persons serving at the request of the corporation in related capacities against expenses (including attorneys' fees), judgments, fines and amounts paid in settlements actually and reasonably incurred by the person in connection with an action, suit or proceeding to which such person was or is a party or threatened to be made a party by reason of such position, if such person acted in good faith and in a manner such person reasonably believed to be in or not opposed to the best interests of the corporation, and, in any criminal action or proceeding, had no reasonable cause to believe such person's conduct was unlawful, except that, in the case of actions brought by or in the right of the corporation, no indemnification shall be made with respect to any claim, issue or matter as to which such person shall have been adjudged to be liable to the corporation unless and only to the extent that the Court of Chancery or other adjudicating court determines that, despite the adjudication of liability but in view of all of the circumstances of the case, such person is fairly and reasonably entitled to indemnity for such expenses which the Court of Chancery or such other court shall deem proper.

As permitted by the DGCL, our amended and restated certificate of incorporation, as amended, and amended and restated bylaws, as amended, provide that: (i) we are required to indemnify our directors to the fullest extent permitted by the DGCL; (ii) we may, in our discretion, indemnify our officers, employees and

agents as set forth in the DGCL; (iii) we are required, upon satisfaction of certain conditions, to advance all expenses incurred by our directors in connection with certain legal proceedings; (iv) the rights conferred in the bylaws are not exclusive; and (v) we are authorized to enter into indemnification agreements with our directors, officers, employees and agents.

We have entered into indemnification agreements with each of our directors and executive officers which require us to indemnify them against expenses, judgments, fines, settlements and other amounts that any such person becomes legally obligated to pay (including with respect to a derivative action) in connection with any proceeding, whether actual or threatened, to which such person may be made a party by reason of the fact that such person is or was a director or officer of us or any of our affiliates, provided such person acted in good faith and in a manner such person reasonably believed to be in, or not opposed to, our best interests. The indemnification agreements also set forth certain procedures that will apply in the event of a claim for indemnification thereunder.

We maintain a directors' and officers' liability insurance policy. The policy insures directors and officers against unindemnified losses arising from certain wrongful acts in their capacities as directors and officers and reimburses us for those losses for which we have lawfully indemnified the directors and officers. The policy contains various exclusions.

Insofar as indemnification for liabilities arising under the Securities Act may be permitted for our directors, executive officers or persons controlling us, we have been informed that, in the opinion of the SEC, such indemnification is against public policy as expressed in the Securities Act and is therefore unenforceable.

Item 16. Exhibits and Financial Statement Schedules.

<u>Exhibit No.</u>	<u>Description</u>
1.1*	Form of Underwriting Agreement.
3.1	Amended and Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.1 of the Company's Current Report on Form 8-K (File No. 001-40703), filed with the Securities and Exchange Commission on August 10, 2021).
3.2	Certificate of Amendment to the Amended and Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.1 of the Company's Current Report on Form 8-K (File No. 001-40703), filed with the Securities and Exchange Commission on September 13, 2022).
3.3	Certificate of Amendment to the Amended and Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.1 of the Company's Current Report on Form 8-K (File No. 001-40703), filed with the Securities and Exchange Commission on May 25, 2023).
3.4	Amended and Restated Bylaws (incorporated by reference to Exhibit 3.2 of the Company's Current Report on Form 8-K (File No. 001-40703), filed with the Securities and Exchange Commission on September 13, 2022).
3.5	Amendment No. 1 to the Amended and Restated Bylaws (incorporated by reference to Exhibit 3.2 of the Company's Current Report on Form 8-K (File No. 001-40703), filed with the Securities and Exchange Commission on May 25, 2023).
3.6	Delaware Certificate of Change of Registered Agent (incorporated by reference to Exhibit 3.3 of the Company's Registration Statement on Form S-3 (File No. 333-267643), filed with the Securities and Exchange Commission on September 28, 2022).
4.1	Second Amended and Restated Investors' Rights Agreement, by and among the Company and certain of its stockholders, dated April 16, 2021 (incorporated by reference to Exhibit 4.1 of the Company's Registration Statement on Form S-1 (File No. 333-257975), filed with the Securities and Exchange Commission on July 16, 2021).

<u>Exhibit No.</u>	<u>Description</u>
4.2*	Specimen certificate evidencing shares of preferred stock.
4.3*	Form of any Certificate of Designation setting forth the preferences and rights with respect to any preferred stock issued hereunder.
4.4	Form of Indenture (filed herewith).
4.5*	Form of Warrant Agreement for Common Stock, including Warrant Certificate for Common Stock.
4.6*	Form of Warrant Agreement for Preferred Stock, including Warrant Certificate for Preferred Stock.
4.7*	Form of Warrant Agreement for Debt Securities, including Warrant Certificate for Debt Securities.
4.8*	Form of Unit Agreement and Unit Certificate.
5.1	Opinion of Hogan Lovells US LLP relating to the base prospectus (filed herewith).
5.2	Opinion of Hogan Lovells US LLP relating to the ATM prospectus (filed herewith).
10.1	Controlled Equity OfferingSM Sales Agreement, by and between the Company and Cantor Fitzgerald & Co., dated December 22, 2023 (incorporated by reference to Exhibit 10.1 of the Company's Current Report on Form 8-K (File No. 001-40703), filed with the Securities and Exchange Commission on December 22, 2023).
23.1	Consent of PricewaterhouseCoopers LLP, independent registered public accounting firm (filed herewith).
23.2	Consent of Hogan Lovells US LLP (included in Exhibit 5.1).
23.3	Consent of Hogan Lovells US LLP (included in Exhibit 5.2).
24.1	Power of Attorney (included on signature page hereto).
25.1**	Form T-1 Statement of Eligibility and Qualification under the Trust Indenture Act of 1939 of Trustee for Form of Indenture.
107	Filing Fee Table (filed herewith).

* To be filed, if necessary, subsequent to the effectiveness of this registration statement by an amendment to this registration statement or incorporated by reference pursuant to a Current Report on Form 8-K in connection with an offering of securities.

** To be filed in accordance with the requirements of Section 305(b)(2) of the Trust Indenture Act of 1939 and Rule 5b-3 thereunder.

Item 17. Undertakings.

(a) The undersigned registrant hereby undertakes:

- (1) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:
 - (i) To include any prospectus required by Section 10(a)(3) of the Securities Act of 1933;
 - (ii) To reflect in the prospectus any facts or events arising after the effective date of the registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any

deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the SEC pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20% change in the maximum aggregate offering price set forth in the "Calculation of Filing Fee Tables" or "Calculation of Registration Fee" table, as applicable, in the effective registration statement; and

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

provided, however, that paragraphs (i), (ii) and (iii) do not apply if the information required to be included in a post-effective amendment by those paragraphs is contained in reports filed with or furnished to the SEC by the registrant pursuant to Section 13 or Section 15(d) of the Exchange Act that are incorporated by reference in the registration statement, or is contained in a form of prospectus filed pursuant to Rule 424(b) that is part of the registration statement.

- (2) That, for the purpose of determining any liability under the Securities Act of 1933, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof.
- (3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.
- (4) That, for the purpose of determining liability under the Securities Act of 1933 to any purchaser:
 - (i) Each prospectus filed by the registrant pursuant to Rule 424(b)(3) shall be deemed to be part of the registration statement as of the date the filed prospectus was deemed part of and included in the registration statement; and
 - (ii) Each prospectus required to be filed pursuant to Rule 424(b)(2), (b)(5) or (b)(7) as part of a registration statement in reliance on Rule 430B relating to an offering made pursuant to Rule 415(a)(1)(i), (vii) or (x) for the purpose of providing the information required by Section 10(a) of the Securities Act of 1933 shall be deemed to be part of and included in the registration statement as of the earlier of the date such form of prospectus is first used after effectiveness or the date of the first contract of sale of securities in the offering described in the prospectus. As provided in Rule 430B, for liability purposes of the issuer and any person that is at that date an underwriter, such date shall be deemed to be a new effective date of the registration statement relating to the securities in the registration statement to which the prospectus relates, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof. Provided, however, that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of contract of sale prior to such effective date, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such effective date.
- (5) That, for the purpose of determining liability of the registrant under the Securities Act of 1933 to any purchaser in the initial distribution of the securities, the undersigned registrant undertakes that in a primary offering of securities of the undersigned registrant pursuant to this registration statement, regardless of the underwriting method used to sell the securities to the purchaser, if the securities are offered or sold to such purchaser by means of any of the following communications, the undersigned registrant will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:
 - (i) Any preliminary prospectus or prospectus of the undersigned registrant relating to the offering required to be filed pursuant to Rule 424;

- (ii) Any free writing prospectus relating to the offering prepared by or on behalf of the undersigned registrant or used or referred to by the undersigned registrant;
 - (iii) The portion of any other free writing prospectus relating to the offering containing material information about the undersigned registrant or its securities provided by or on behalf of the undersigned registrant; and
 - (iv) Any other communication that is an offer in the offering made by the undersigned registrant to the purchaser.
- (b) The undersigned registrant hereby undertakes that, for purposes of determining any liability under the Securities Act of 1933, each filing of the registrant's annual report pursuant to Section 13(a) or 15(d) of the Exchange Act that is incorporated by reference in this registration statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.
- (c) Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers and controlling persons of the registrant pursuant to the foregoing provisions, or otherwise, the registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Securities Act of 1933 and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the registrant of expenses incurred or paid by a director, officer or controlling person of the registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act of 1933 and will be governed by the final adjudication of such issue.
- (d) If and when applicable, the undersigned registrant hereby undertakes to file an application for the purpose of determining the eligibility of the trustee to act under subsection (a) of Section 310 of the Trust Indenture Act in accordance with the rules and regulations prescribed by the Securities and Exchange Commission under Section 305(b)(2) of the Trust Indenture Act.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, as amended, the Registrant, Invivyd, Inc., certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-3 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of New Haven, State of Connecticut, on this 2nd day of October, 2025.

Invivyd, Inc.

By: /s/ William Duke, Jr.
 William Duke, Jr.
 Chief Financial Officer

KNOW ALL BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints William Duke, Jr. and Jill Andersen as his or her true and lawful attorney-in-fact and agent, with the full power of substitution, for him or her and in his or her name, place or stead, in any and all capacities, to sign any and all amendments to this registration statement (including post-effective amendments), and any other registration statements for the same offering pursuant to Rule 462(b) of the Securities Act of 1933, as amended, and to file the same, with exhibits thereto and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorney-in-fact and agent full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to all intents and purposes as he or she might or could do in person, hereby ratifying and confirming all that said attorney-in-fact and agent, or his or her substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act of 1933, as amended, this registration statement has been signed by the following persons in the capacities and on the dates indicated.

<u>Signature</u>	<u>Title</u>	<u>Date</u>
<u>/s/ William Duke, Jr.</u> William Duke, Jr.	Chief Financial Officer <i>(Principal Executive Officer, Principal Financial Officer and Principal Accounting Officer)</i>	October 2, 2025
<u>/s/ Marc Elia</u> Marc Elia	Chairman of the Board of Directors	October 2, 2025
<u>/s/ Tamsin Berry</u> Tamsin Berry	Director	October 2, 2025
<u>/s/ Paul B. Bolno, M.D.</u> Paul B. Bolno, M.D.	Director	October 2, 2025
<u>/s/ Terrance McGuire</u> Terrance McGuire	Director	October 2, 2025
<u>/s/ Kevin F. McLaughlin</u> Kevin F. McLaughlin	Director	October 2, 2025
<u>/s/ Ajay Royan</u> Ajay Royan	Director	October 2, 2025

INDENTURE
DATED AS OF _____, 20____
BETWEEN
INVIVYD, INC.
as Issuer,
AND
as Trustee

Providing for Issuance of
Debt Securities
in Series

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Note: This table of contents shall not, for any purpose, be deemed to be a part of the Indenture.

Certain Sections of this Indenture relating to Sections 310 – 318, inclusive,
of the Trust Indenture Act of 1939, as amended

<u>Trust Indenture Act Section</u>	<u>Indenture Section</u>
310(a)(1)	6.09
(a)(2)	6.09
(a)(3)	N.A.
(a)(4)	N.A.
(a)(5)	6.09
(b)	6.08, 6.10
(c)	N.A.
311(a)	6.13
(b)	6.13
(c)	N.A.
312(a)	7.01, 7.02
(b)	7.02
(c)	7.02
313(a)	7.03
(b)(1)	N.A.
(b)(2)	7.03
(c)	7.03
(d)	7.03
314(a)	7.04
(a)(4)	1.04, 10.04
(b)	N.A.
(c)(1)	1.02
(c)(2)	1.02
(c)(3)	N.A.
(d)	N.A.
(e)	1.02
(f)	N.A.
315(a)	6.01
(b)	6.02
(c)	6.01
(d)	6.01
(e)	5.14
316(a)(last sentence)	1.06
(a)(1)(A)	5.02, 5.12
(a)(1)(B)	5.13
(a)(2)	N.A.
(b)	5.08

<u>Trust Indenture Act Section</u>	<u>Indenture Section</u>
(c)	1.04
317(a)(1)	5.03
(a)(2)	5.04
(b)	10.03
318(a)	1.07
(b)	N.A.
(c)	1.07

* N.A. means inapplicable.

NOTE: This reconciliation and tie shall not, for any purpose, be deemed to be part of the Indenture.

INDENTURE

THIS INDENTURE, dated as of _____, 20____, between INVIVYD, INC., a corporation duly organized and existing under the laws of the State of Delaware (herein called the “*Company*”), and _____, as trustee (herein called the “*Trustee*”).

RECITALS

The Company has duly authorized the execution and delivery of this Indenture to provide for the issuance from time to time of the Company’s debentures, notes or other evidences of indebtedness (herein called the “*Securities*”), to be issued in one or more series as provided in this Indenture.

All things necessary to make this Indenture a valid agreement of the Company in accordance with its terms, have been done.

NOW, THEREFORE, THIS INDENTURE WITNESSETH:

For and in consideration of the premises and the purchase of the Securities by the Holders thereof, it is mutually agreed, for the equal and proportionate benefit of all Holders of the Securities or of any series thereof, as follows:

ARTICLE I. DEFINITIONS AND OTHER PROVISIONS OF GENERAL APPLICATION

Section 1.01 Definitions.

For all purposes of this Indenture, except as otherwise expressly provided or unless the context otherwise requires:

(a) the terms defined in this Article have the meanings assigned to them in this Article and include the plural as well as the singular and the masculine gender shall include the feminine and neuter, and vice versa, unless the context otherwise requires;

(b) all other terms used herein that are defined in the Trust Indenture Act, either directly or by reference therein, have the meanings assigned to them therein;

(c) all accounting terms not otherwise defined herein have the meanings assigned to them in accordance with generally accepted accounting principles in the United States of America (including, if applicable, International Financial Reporting Standards) as in effect from time to time;

(d) unless the context otherwise requires, any reference to an “Article” or a “Section” refers to an Article or a Section, as the case may be, of this Indenture;

(e) the words “herein”, “hereof” and “hereunder” and other words of similar import refer to this Indenture as a whole and not to any particular Article, Section or other subdivision;

(f) “or” is not exclusive, and “including” means “including without limitation”, “including but not limited to” or words of similar import;

(g) when used with respect to any Security, the words “convert,” “converted” and “conversion” are intended to refer to the right of the Holder or the Company to convert or exchange such Security into or for securities or other property in accordance with such terms, if any, as may hereafter be specified for such Security as contemplated by Section 3.01, and these words are not intended to refer to any right of the Holder or the Company to exchange such Security for other Securities of the same series and like tenor pursuant to Section 3.04, Section 3.05, Section 3.06, Section 9.06 or Section 11.07 or another similar provisions of this Indenture, unless the context otherwise requires; and references herein to the terms of any Security that may be converted mean such terms as may be specified for such Security as contemplated in Section 3.01; and

(h) unless otherwise provided, references to agreements and other instruments shall be deemed to include all amendments and other modifications to such agreements and instruments, but only to the extent such amendments and other modifications are not prohibited by the terms of this Indenture.

“**Act**”, when used with respect to any Holder, has the meaning specified in Section 1.04.

“**Affiliate**” of any specified Person means any other Person directly or indirectly controlling or controlled by or under direct or indirect common control with such specified Person. For the purposes of this definition, “control” when used with respect to any specified Person means the power to direct the management and policies of such Person, directly or indirectly, whether through the ownership of voting securities, by contract or otherwise; and the terms “controlling” and “controlled” have meanings correlative to the foregoing.

“**Applicable Procedures**” of a Depository means, with respect to any matter at any time, the policies and procedures of such Depository, if any, that are applicable to such matter at such time.

“**Authenticating Agent**” means any Person authorized by the Trustee pursuant to Section 6.14 to act on behalf of the Trustee to authenticate Securities of one or more series.

“**Board of Directors**” means either the board of directors of the Company or any duly authorized committee of that board of directors.

“**Board Resolution**” means a copy of a resolution certified by the Secretary or an Assistant Secretary of the Company to have been duly adopted by the Board of Directors and to be in full force and effect on the date of such certification and delivered to the Trustee.

“**Business Day**”, when used with respect to any Place of Payment, means, except as otherwise provided or contemplated by Section 3.01 with respect to any series of Securities, each Monday, Tuesday, Wednesday, Thursday and Friday which is not a day on which banking institutions in that Place of Payment are authorized or obligated by law or executive order or regulation to close.

“**Commission**” means the Securities and Exchange Commission, from time to time constituted, created under the Exchange Act, or, if at any time after the execution of this Indenture such Commission is not existing and performing the duties now assigned to it under the Trust Indenture Act, then the body performing such duties at such time.

“**Company**” means the Person named as the “Company” in the first paragraph of this Indenture until a successor Person shall have become such pursuant to the applicable provisions of this Indenture, and thereafter “Company” shall mean such successor Person.

“**Company Request**” or “**Company Order**” means a written request or order signed in the name of the Company by its Chief Executive Officer, Chief Financial Officer or Corporate Secretary, or any other officer or officers of the Company designated in writing by or pursuant to authority of the Board of Directors, and delivered to the Trustee.

“**Corporate Trust Office**” means the principal office of the Trustee at which at any particular time its corporate trust business shall be administered, or at any other time at such other address as the Trustee may designate from time to time by notice to the Holders.

“**corporation**” means a corporation, association, limited liability company, company, joint-stock company or business trust.

“**Covenant Defeasance**” has the meaning specified in Section 13.03.

“**Defaulted Interest**” has the meaning specified in [Section 3.07](#).

“**Defeasance**” has the meaning specified in [Section 13.02](#).

“**Depository**” means, with respect to Securities of any series issuable in whole or in part in the form of one or more Global Securities, a clearing agency registered under the Exchange Act that is designated to act as Depository for such Securities as contemplated by [Section 3.01](#).

“**Event of Default**” has the meaning specified in [Section 5.01](#).

“**Exchange Act**” means the Securities Exchange Act of 1934 and any statute successor thereto, in each case as amended from time to time.

“**Expiration Date**” has the meaning specified in [Section 1.04](#).

“**Global Security**” means a Security that evidences all or part of the Securities of any series and bears the legend set forth in [Section 2.04](#) (or such legend as may be specified as contemplated by [Section 3.01](#) for such Securities).

“**Holder**” means a Person in whose name a Security is registered in the Security Register.

“**Indenture**” means this instrument as originally executed and as it may from time to time be supplemented or amended by one or more indentures supplemental hereto entered into pursuant to the applicable provisions hereof, including, for all purposes of this instrument and any such supplemental indenture, the provisions of the Trust Indenture Act that are deemed to be a part of and govern this instrument and any such supplemental indenture, respectively. The term “Indenture” shall also include the terms of particular series of Securities established as contemplated by [Section 3.01](#).

“**interest**”, when used with respect to an Original Issue Discount Security that by its terms bears interest only after Maturity, means interest payable after Maturity.

“**Interest Payment Date**”, when used with respect to any Security, means the Stated Maturity of an installment of interest on such Security.

“**Internal Revenue Code**” means the U.S. Internal Revenue Code of 1986, as amended from time to time.

“**mandatory sinking fund payment**” has the meaning specified in [Section 12.01](#).

“**Maturity**”, when used with respect to any Security, means the date on which the principal of such Security or an installment of principal becomes due and payable as therein or herein provided, whether at the Stated Maturity or by declaration of acceleration, call for redemption or otherwise.

“**Notice of Default**” means a written notice of the kind specified in [Section 5.01\(d\)](#).

“**Officer’s Certificate**” means a certificate signed by the Chairman of the Board, the Chief Executive Officer, the Chief Financial Officer or the Corporate Secretary or any other officer or officers of the Company designated in writing by or pursuant to authority of the Board of Directors and delivered to the Trustee.

“**Opinion of Counsel**” means a written opinion of counsel, who may be an employee of, or outside counsel to, but does not have to be counsel for, the Company, and who shall be acceptable to the Trustee, which acceptance shall not be unreasonably withheld. Opinions of Counsel required to be delivered under this Indenture may have qualifications customary for opinions of the type required.

“**optional sinking fund payment**” has the meaning specified in [Section 12.01](#).

“**Original Issue Discount Security**” means any Security that provides for an amount less than the principal amount thereof to be due and payable upon a declaration of acceleration of the Maturity thereof pursuant to Section 5.02.

“**Outstanding**”, when used with respect to Securities, means, as of the date of determination, all Securities theretofore authenticated and delivered under this Indenture, except:

- (1) Securities theretofore cancelled and delivered to the Trustee or delivered to the Trustee for cancellation;
- (2) Securities for whose payment or redemption money in the necessary amount has been theretofore deposited with the Trustee or any Paying Agent (other than the Company) in trust or set aside and segregated in trust by the Company (if the Company shall act as its own Paying Agent) for the Holders of such Securities; provided that, if such Securities are to be redeemed, notice of such redemption has been duly given pursuant to this Indenture or provision therefor has been made;
- (3) Securities, except to the extent provided in Sections 13.02 and 13.03 respectively, as to which the Company has effected Defeasance pursuant to Section 13.02 or Covenant Defeasance pursuant to Section 13.03;
- (4) Securities which have been paid pursuant to Section 3.06 or in exchange for or in lieu of which other Securities have been authenticated and delivered pursuant to this Indenture, other than any such Securities in respect of which there shall have been presented to the Trustee proof satisfactory to it that such Securities are held by a bona fide purchaser in whose hands such Securities are valid obligations of the Company; and
- (5) Securities as to which any property deliverable upon conversion thereof has been delivered (or such delivery has been made available), or as to which any other particular conditions have been satisfied, in each case as may be provided for such Securities as contemplated in Section 3.01;

provided, however, that in determining whether the Holders of the requisite principal amount of the Outstanding Securities have given, made or taken any request, demand, authorization, direction, notice, consent, waiver or other action hereunder as of any date, (A) the principal amount of an Original Issue Discount Security which shall be deemed to be Outstanding shall be the amount of the principal thereof which would be due and payable as of such date upon acceleration of the Maturity thereof to such date pursuant to Section 5.02, (B) if, as of such date, the principal amount payable at the Stated Maturity of a Security is not determinable, the principal amount of such Security which shall be deemed to be Outstanding shall be the amount as specified or determined as contemplated by Section 3.01, (C) the principal amount of a Security denominated in one or more foreign currencies, composite currencies or currency units which shall be deemed to be Outstanding shall be the U.S. dollar equivalent, determined as of such date in the manner provided as contemplated by Section 3.01, of the principal amount of such Security (or, in the case of a Security described in Clause (A) or (B) above, of the amount determined as provided in such Clause), and (D) Securities owned by the Company or any other obligor upon the Securities or any Affiliate of the Company or of such other obligor shall be disregarded and deemed not to be Outstanding, except that, in determining whether the Trustee shall be protected in relying upon any such request, demand, authorization, direction, notice, consent, waiver or other action, only Securities which the Trustee knows to be so owned shall be so disregarded. The Trustee shall be protected in relying on an Officer's Certificate or other evidence satisfactory to it in determining ownership. Securities so owned which have been pledged in good faith may be regarded as Outstanding if the pledgee establishes to the satisfaction of the Trustee the pledgee's right so to act with respect to such Securities and that the pledgee is not the Company or any other obligor upon the Securities or any Affiliate of the Company or of such other obligor.

“**Paying Agent**” means any Person authorized by the Company to pay the principal of or any premium or interest on any Securities on behalf of the Company.

“**Person**” means any individual, corporation, company (including a limited liability company), partnership, joint venture, association, joint stock company, trust, unincorporated organization or government or any agency or political subdivision thereof or any other entity.

“**Place of Payment**”, when used with respect to the Securities of any series, means the place or places where the principal of and any premium and interest on the Securities of that series are payable as specified or contemplated by [Section 3.01](#).

“**Predecessor Security**” of any particular Security means every previous Security evidencing all or a portion of the same debt as that evidenced by such particular Security; and, for the purposes of this definition, any Security authenticated and delivered under [Section 3.06](#) in exchange for or in lieu of a mutilated, destroyed, lost or stolen Security shall be deemed to evidence the same debt as the mutilated, destroyed, lost or stolen Security.

“**Redemption Date**”, when used with respect to any Security to be redeemed, means the date fixed for such redemption by or pursuant to this Indenture.

“**Redemption Price**”, when used with respect to any Security to be redeemed, means the price at which it is to be redeemed pursuant to this Indenture.

“**Regular Record Date**” for the interest payable on any Interest Payment Date on the Securities of any series means the date specified for that purpose as contemplated by [Section 3.01](#).

“**Responsible Officer**”, when used with respect to the Trustee, means the chairman or any vice-chairman of the board of directors, the chairman or any vice-chairman of the executive committee of the board of directors, the chairman of the trust committee, the president, any Vice President, the secretary, any assistant secretary, the treasurer, any assistant treasurer, the cashier, any assistant cashier, any trust officer or assistant trust officer, the controller or any assistant controller or any other officer of the Trustee customarily performing functions similar to those performed by any of the above designated officers and also means, with respect to a particular corporate trust matter, any other officer to whom such matter is referred because of his knowledge of and familiarity with the particular subject and who shall have direct responsibility for the administration of this Indenture.

“**Securities**” has the meaning stated in the first recital of this Indenture and more particularly means any Securities authenticated and delivered under this Indenture.

“**Securities Act**” means the Securities Act of 1933 and any statute successor thereto, in each case as amended from time to time.

“**Security Register**” and “**Security Registrar**” have the respective meanings specified in [Section 3.05](#).

“**Special Record Date**” for the payment of any Defaulted Interest means a date fixed by the Trustee pursuant to [Section 3.07](#).

“**Stated Maturity**”, when used with respect to any Security or any installment of principal thereof or interest thereon, means the date specified in such Security as the fixed date on which the principal of such Security or such installment of principal or interest is due and payable.

“**Subsidiary**” means any Person a majority of the combined voting power of the total outstanding ownership interests in which is, at the time of determination, beneficially owned or held, directly or indirectly, by the Company or one or more other Subsidiaries. For this purpose, “voting power” means power to vote in an ordinary election of directors (or, in the case of a Person that is not a corporation, ordinarily to appoint or approve the appointment of Persons holding similar positions), whether at all times or only as long as no senior class of ownership interests has such voting power by reason of any contingency.

“**Trust Indenture Act**” means the Trust Indenture Act of 1939 as in force at the date as of which this Indenture was executed, except as otherwise provided in [Section 9.05](#); provided, however, that in the event the Trust Indenture Act of 1939 is amended after such date, “Trust Indenture Act” means, to the extent required by any such amendment, the Trust Indenture Act of 1939 as so amended.

“Trustee” means the Person named as the “Trustee” in the first paragraph of this Indenture until a successor Trustee shall have become such pursuant to the applicable provisions of this Indenture, and thereafter “Trustee” shall mean or include each Person who is then a Trustee hereunder, and if at any time there is more than one such Person, “Trustee” as used with respect to the Securities of any series shall mean the Trustee with respect to Securities of that series.

“U.S. Government Obligation” has the meaning specified in Section 13.04.

“Vice President”, when used with respect to the Company or the Trustee, means any vice president, whether or not designated by a number or a word or words added before or after the title “vice president”.

Section 1.02 Compliance Certificates and Opinions.

Upon any application or request by the Company to the Trustee to take or refrain from taking any action under any provision of this Indenture, the Company shall furnish to the Trustee such certificates and opinions as may be required under the Trust Indenture Act; provided, however, that no Opinion of Counsel shall be required in connection with (i) the issuance of Securities that are part of any series as to which such an opinion has been furnished and (ii) a request by the Company that the Trustee deliver a notice to Holders under this Indenture where the Trustee receives an Officer’s Certificate with respect to such notice. Each such certificate and opinion shall be given in the form of an Officer’s Certificate, if to be given by an officer of the Company and an Opinion of Counsel, if to be given by counsel, and shall comply with the requirements of the Trust Indenture Act and any other requirements set forth in this Indenture.

Every certificate or opinion with respect to compliance with a condition or covenant provided for in this Indenture (except for certificates provided in Section 10.04) shall include:

- (a) a statement that each individual signing such certificate or opinion has read such covenant or condition and the definitions herein relating thereto;
- (b) a brief statement as to the nature and scope of the examination or investigation upon which the statements or opinions contained in such certificate or opinion are based;
- (c) a statement that, in the opinion of each such individual, he or she has made such examination or investigation as is necessary to enable him or her to express an informed opinion as to whether or not such covenant or condition has been complied with; and
- (d) a statement as to whether, in the opinion of each such individual, such condition or covenant has been complied with.

Section 1.03 Form of Documents Delivered to Trustee.

In any case where several matters are required to be certified by, or covered by an opinion of, any specified Person, it is not necessary that all such matters be certified by, or covered by the opinion of, only one such Person, or that they be so certified or covered by only one document, but one such Person may certify or give an opinion with respect to some matters and one or more other such Persons as to other matters, and any such Person may certify or give an opinion as to such matters in one or several documents.

Any certificate or opinion of an officer of the Company may be based, insofar as it relates to legal matters, upon a certificate or opinion of, or representations by, counsel, unless such officer knows, or in the exercise of reasonable care should know, that the certificate or opinion or representations with respect to the matters upon which his certificate or opinion is based are erroneous. Any such certificate or Opinion of Counsel may be based, insofar as it relates to factual matters, upon a certificate or opinion of, or representations by, an officer or officers of the Company stating that the information with respect to such factual matters is in the possession of the Company, unless such counsel knows, or in the exercise of reasonable care should know, that the certificate or Opinion of Counsel or representations with respect to such matters are erroneous. Counsel delivering an Opinion of Counsel may also rely as to factual matters on certificates of governmental or other officials customary for opinions of the type required.

Where any Person is required to make, give or execute two or more applications, requests, consents, certificates, statements, opinions or other instruments under this Indenture, they may, but need not, be consolidated and form one instrument.

Section 1.04 Acts of Holders; Record Dates.

Any request, demand, authorization, direction, notice, consent, waiver or other action provided or permitted by this Indenture to be given, made or taken by Holders may be embodied in and evidenced by one or more instruments of substantially similar tenor signed by such Holders in person or by an agent duly appointed in writing; and, except as herein otherwise expressly provided, such action shall become effective when such instrument or instruments are delivered to the Trustee and, where it is hereby expressly required, to the Company. Such instrument or instruments (and the action embodied therein and evidenced thereby) are herein sometimes referred to as the "Act" of the Holders signing such instrument or instruments. Proof of execution of any such instrument or of a writing appointing any such agent shall be sufficient for any purpose of this Indenture and (subject to Section 6.01) conclusive in favor of the Trustee and the Company, if made in the manner provided in this Section.

Without limiting the generality of the foregoing, a Holder, including a Depositary that is a Holder of a Global Security, may make, give or take, by a proxy or proxies, duly appointed in writing, any request, demand, authorization, direction, notice, consent, waiver or other action provided in this Indenture to be made, given or taken by Holders, and a Depositary that is a Holder of a Global Security may provide its proxy or proxies to the beneficial owners of interests in any such Global Security.

The fact and date of the execution by any Person of any such instrument or writing may be proved by the affidavit of a witness of such execution or by a certificate of a notary public or other officer authorized by law to take acknowledgments of deeds, certifying that the individual signing such instrument or writing acknowledged to him the execution thereof. Where such execution is by a signer acting in a capacity other than his individual capacity, such certificate or affidavit shall also constitute sufficient proof of his authority. The fact and date of the execution of any such instrument or writing, or the authority of the Person executing the same, may also be proved in any other manner which the Trustee deems sufficient.

The ownership, principal amount and serial numbers of Securities held by any Person, and the date of commencement of such Person's holding the same, shall be proved by the Security Register.

Any request, demand, authorization, direction, notice, consent, waiver or other Act of the Holder of any Security shall bind every future Holder of the same Security and the Holder of every Security issued upon the registration of transfer thereof or in exchange therefor or in lieu thereof in respect of anything done, omitted or suffered to be done by the Trustee or the Company in reliance thereon, whether or not notation of such action is made upon such Security.

The Company may set any day as a record date for the purpose of determining the Holders of Outstanding Securities of any series entitled to give, make or take any request, demand, authorization, direction, notice, consent, waiver or other action provided or permitted by this Indenture to be given, made or taken by Holders of Securities of such series, but the Company shall have no obligation to do so; provided that the Company may not set a record date for, and the provisions of this paragraph shall not apply with respect to, the giving or making of any notice, declaration, request or direction referred to in the next paragraph. If any record date is set pursuant to this paragraph, the Holders of Outstanding Securities of the relevant series on such record date, and no other Holders, shall be entitled to take the relevant action, whether or not such Holders remain Holders after such record date; provided that no such action shall be effective hereunder unless taken on or prior to the applicable Expiration Date by Holders of the requisite principal amount of Outstanding Securities of such series on such record date. Nothing in this paragraph shall be construed to prevent the Company from setting a new record date for any action for which a record date has previously been set pursuant to this paragraph (whereupon the record date previously set shall automatically and with no action by any Person be cancelled and of no effect), and nothing in this paragraph shall be construed to render ineffective any action taken by Holders of the requisite principal amount of Outstanding Securities of the relevant series on the date such action is taken. Promptly after any record date is set pursuant to this paragraph, the Company, at its own expense, shall cause notice of such record date, the proposed action by Holders and the applicable Expiration Date to be given to the Trustee in writing and to each Holder of Securities of the relevant series in the manner set forth in Section 1.05 or Section 1.06.

The Trustee may set any day as a record date for the purpose of determining the Holders of Outstanding Securities of any series entitled to join in the giving or making of (i) any Notice of Default, (ii) any declaration of acceleration referred to in [Section 5.02](#), (iii) any request to institute proceedings referred to in [Section 5.07\(b\)](#) or (iv) any direction referred to in [Section 5.12](#), in each case with respect to Securities of such series. If any record date is set pursuant to this paragraph, the Holders of Outstanding Securities of such series on such record date, and no other Holders, shall be entitled to join in such notice, declaration, request or direction, whether or not such Holders remain Holders after such record date; provided that no such action shall be effective hereunder unless taken on or prior to the applicable Expiration Date by Holders of the requisite principal amount of Outstanding Securities of such series on such record date. Nothing in this paragraph shall be construed to prevent the Trustee from setting a new record date for any action for which a record date has previously been set pursuant to this paragraph (whereupon the record date previously set shall automatically and with no action by any Person be cancelled and of no effect), and nothing in this paragraph shall be construed to render ineffective any action taken by Holders of the requisite principal amount of Outstanding Securities of the relevant series on the date such action is taken. Promptly after any record date is set pursuant to this paragraph, the Trustee, at the Company's expense, shall cause notice of such record date, the proposed action by Holders and the applicable Expiration Date to be given to the Company in writing and to each Holder of Securities of the relevant series in the manner set forth in [Section 1.05](#) or [Section 1.06](#).

With respect to any record date set pursuant to this Section, the party hereto which sets such record date may designate any day as the "**Expiration Date**" and from time to time may change the Expiration Date to any earlier or later day; provided that no such change shall be effective unless notice of the proposed new Expiration Date is given to the other party hereto in writing, and to each Holder of Securities of the relevant series in the manner set forth in [Section 1.06](#), on or prior to the then existing Expiration Date. If an Expiration Date is not designated with respect to any record date set pursuant to this Section, the party hereto which set such record date shall be deemed to have initially designated the 180th day following such record date as the Expiration Date with respect thereto, subject to its right to change the Expiration Date as provided in this paragraph. Notwithstanding the foregoing, no Expiration Date shall be later than the 180th day following the applicable record date.

Without limiting the foregoing, a Holder entitled hereunder to take any action hereunder with regard to any particular Security may do so with regard to all or any part of the principal amount of such Security or by one or more duly appointed agents each of which may do so pursuant to such appointment with regard to all or any part of such principal amount.

Section 1.05 Notices, Etc., to Trustee and Company.

Any request, demand, authorization, direction, notice, consent, waiver or Act of Holders or other document provided or permitted by this Indenture to be made upon, given or furnished to, or filed with:

(1) the Trustee by any Holder or by the Company shall be sufficient for every purpose hereunder if made, given, furnished or filed in writing (which may be by facsimile or electronic transmission) to or with the Trustee at its Corporate Trust Office at the location specified in [Section 1.01](#); or

(2) the Company by the Trustee or by any Holder shall be sufficient for every purpose hereunder (unless otherwise herein expressly provided) if in writing and mailed, first-class postage prepaid, to the Company at the address of the Company's principal office specified in writing to the Trustee, which shall be, until further notice:

Invivyd, Inc.
209 Church Street
New Haven, CT 06510
Attn: Chief Financial Officer

Copy to:

Hogan Lovells US LLP
1735 Market Street, 23rd Floor
Philadelphia, PA 19103-2799
Fax: (267) 675-4601
Attention: Steven J. Abrams, Esq.

In addition to the foregoing, the Trustee agrees to accept and act upon notices, instructions or directions pursuant to this Indenture sent by unsecured e-mail, facsimile transmission or other similar unsecured electronic methods. If the party elects to give the Trustee e-mail or facsimile notices, instructions or directions (or notices, instructions or directions by a similar electronic method) and the Trustee acts upon such notices, instructions or directions, the Trustee's understanding of such notices, instructions or directions shall be deemed controlling. The Trustee shall not be liable for any losses, costs or expenses arising directly or indirectly from the Trustee's reliance upon and compliance with such notices, instructions or directions notwithstanding such notices, instructions or directions conflict or are inconsistent with a subsequent written notice, instruction or direction. The Company agrees to assume all risks arising out of the use of such electronic methods to submit notices, instructions and directions to the Trustee, including without limitation the risk of the Trustee acting on unauthorized notices, instructions or directions, and the risk of interception and misuse by third parties.

Section 1.06 Notice to Holders: Waiver.

Where this Indenture provides for notice to Holders of any event, such notice shall be sufficiently given (unless otherwise herein expressly provided) if in writing and mailed, first-class postage prepaid, to each Holder affected by such event, at its address as it appears in the Security Register, not later than the latest date (if any), and not earlier than the earliest date (if any), prescribed for the giving of such notice. In any case where notice to Holders is given by mail, neither the failure to mail such notice, nor any defect in any notice so mailed, to any particular Holder shall affect the sufficiency of such notice with respect to other Holders. Any notice when mailed to a Holder in the aforesaid manner shall be conclusively deemed to have been received by such Holder whether or not actually received by such Holder. Where this Indenture provides for notice in any manner, such notice may be waived in writing by the Person entitled to receive such notice, either before or after the event, and such waiver shall be the equivalent of such notice. Waivers of notice by Holders shall be filed with the Trustee, but such filing shall not be a condition precedent to the validity of any action taken in reliance upon such waiver.

In case by reason of the suspension of regular mail service or by reason of any other cause it shall be impracticable to give such notice by mail, then such notification as shall be made with the approval of the Trustee shall constitute a sufficient notification for every purpose hereunder.

Where this Indenture provides for notice of any event to a Holder of a Global Security, such notice shall be sufficiently given if given to the Depository for such Security (or its designee), pursuant to the Applicable Procedures of the Depository, not later than the latest date, if any, and not earlier than the earliest date, if any, prescribed for the giving of such notice.

Section 1.07 Conflict with Trust Indenture Act.

This Indenture is subject to the provisions of the Trust Indenture Act that are required to be a part of this Indenture and, to the extent applicable, shall be governed by such provisions. If any provision hereof limits, qualifies or conflicts with a provision of the Trust Indenture Act or with another provision hereof which is required under the Trust Indenture Act to be a part of and govern this Indenture, the latter provision shall control. If any provision of this Indenture modifies or excludes any provision of the Trust Indenture Act which may be so modified or excluded, the latter provision shall be deemed to apply to this Indenture as so modified or excluded, as the case may be.

Section 1.08 Effect of Headings and Table of Contents.

The Article and Section headings herein and the Table of Contents are for convenience only and shall not affect the construction hereof.

Section 1.09 Successors and Assigns.

All covenants and agreements in this Indenture by the Company shall bind its successors and assigns, whether so expressed or not. All agreements of the Trustee in this Indenture shall bind its successors and assigns, whether so expressed or not.

Section 1.10 Separability Clause.

In case any provision in this Indenture or in the Securities shall be invalid, illegal or unenforceable, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired thereby.

Section 1.11 Benefits of Indenture.

Nothing in this Indenture or in the Securities, express or implied, shall give to any Person, other than the parties hereto and their successors hereunder and the Holders, any benefit or any legal or equitable right, remedy or claim under this Indenture, except as may otherwise be expressly provided pursuant to Section 3.01 with respect to any specific Securities.

Section 1.12 Governing Law.

This Indenture and the Securities shall be governed by and construed in accordance with the laws of the State of New York.

Section 1.13 Legal Holidays.

In any case where any Interest Payment Date, Redemption Date or Stated Maturity of any Security, or any date on which a Holder has the right to convert such Holder's Security, shall not be a Business Day at any Place of Payment, then (notwithstanding any other provision of this Indenture or of the Securities (other than a provision of any Security which specifically states that such provision shall apply in lieu of this Section)) payment of interest or principal (and premium, if any), or the Redemption Price or conversion of such Security, need not be made at such Place of Payment on such date, but may be made on the next succeeding Business Day at such Place of Payment with the same force and effect as if made on the Interest Payment Date or Redemption Date, or at the Stated Maturity, or on such conversion date. No interest shall accrue for the period from and after any such Interest Payment Date, Redemption Date, Stated Maturity or conversion date, as the case may be, to the date of such payment.

Section 1.14 Incorporators, Equityholders, Directors, Members, Managers, Officers and Employees of the Company Exempt from Individual Liability.

No recourse under or upon any obligation, covenant or agreement contained in this Indenture, or in any Security, or because of any indebtedness evidenced thereby, shall be had against any incorporator, as such, or against any past, present or future equityholder, director, member, manager, officer or employee, as such, of the Company or of any successor, either directly or through the Company or any successor, under any rule of law, statute or constitutional provision or by the enforcement of any assessment or by any legal or equitable proceeding or otherwise, all such liability being expressly waived and released by the acceptance of the Securities by the Holders thereof and as part of the consideration for the issue of the Securities.

Section 1.15 Counterparts.

This Indenture may be executed in several counterparts, each of which shall be an original and all of which shall constitute but one and the same instrument. Delivery of an executed signature page of this Indenture by facsimile or any other rapid transmission device designed to produce a written record of the communication transmitted shall be as effective as delivery of a manually executed counterpart thereof. The words "execution," "executed," "signed," "signature" and words of like import in this Indenture or in any other certificate, agreement or document related to this Indenture shall include images of manually executed signatures transmitted by facsimile,

email or other electronic format (including, without limitation, “pdf,” “tif” or “jpg”) and other electronic signatures (including, without limitation, DocuSign and AdobeSign). The use of electronic signatures and electronic records (including, without limitation, any contract or other record created, generated, sent, communicated, received, or stored by electronic means) shall be of the same legal effect, validity and enforceability as a manually executed signature or use of a paper-based record-keeping system to the fullest extent permitted by applicable law, including the Federal Electronic Signatures in Global and National Commerce Act and any other applicable law, including, without limitation, any state law based on the Uniform Electronic Transactions Act or the Uniform Commercial Code.

Section 1.16 WAIVER OF JURY TRIAL.

EACH OF THE COMPANY, THE HOLDERS AND THE TRUSTEE HEREBY IRREVOCABLY WAIVES, TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, ANY AND ALL RIGHT TO TRIAL BY JURY IN ANY LEGAL PROCEEDING AS BETWEEN THE COMPANY AND THE TRUSTEE ONLY ARISING OUT OF OR RELATING TO THIS INDENTURE OR THE SECURITIES.

ARTICLE II. SECURITY FORM

Section 2.01 Forms Generally.

The Securities of each series and the Trustee’s certificate of authentication shall be in substantially the forms set forth in this Article, or in such other form as shall be established by or pursuant to a Board Resolution and, subject to Section 3.03, to the extent established in an Officer’s Certificate or Company Order setting forth, or determining the manner of, such establishment, or in one or more indentures supplemental hereto, in each case with such appropriate insertions, omissions, substitutions and other variations as are required or permitted by this Indenture, and may have such letters, numbers or other marks of identification and such legends or endorsements placed thereon as may be required to comply with applicable laws or the rules of any securities exchange or automated quotation system on which the Securities of such series may be listed or traded or of any Depository therefor or as may, consistently herewith, be determined by the officers executing such Securities, as evidenced by their execution thereof. If the form of Securities of any series is established by action taken pursuant to a Board Resolution, a copy of an appropriate record of such action shall be certified by the Secretary or an Assistant Secretary of the Company and delivered to the Trustee at or prior to the delivery of the Company Order contemplated by Section 3.03 for the authentication and delivery of such Securities. If all of the Securities of any series established by action taken pursuant to a Board Resolution are not to be issued at one time, it shall not be necessary to deliver a record of such action at the time of issuance of each Security of such series, but an appropriate record of such action shall be delivered at or before the time of issuance of the first Security of such series.

The definitive Securities shall be printed, lithographed or engraved on steel engraved borders or may be produced in any other manner, all as determined by the officers executing such Securities, as evidenced by their execution of such Securities.

Section 2.02 Form of Legend for Global Securities.

Unless otherwise specified as contemplated by Section 3.01 for the Securities evidenced thereby or as required by Applicable Procedures, every Global Security authenticated and delivered hereunder shall bear a legend in substantially the following form:

[Insert, if applicable — UNLESS THIS NOTE IS PRESENTED BY AN AUTHORIZED REPRESENTATIVE OF THE DEPOSITORY TRUST COMPANY, A NEW YORK CORPORATION (“DTC”), TO THE ISSUER OR ITS AGENT FOR REGISTRATION OF TRANSFER, EXCHANGE OR PAYMENT, AND ANY CERTIFICATE ISSUED IS REGISTERED IN THE NAME OF CEDE & CO. OR IN SUCH OTHER NAME AS IS REQUESTED BY AN AUTHORIZED REPRESENTATIVE OF DTC (AND ANY PAYMENT IS MADE TO CEDE & CO. OR TO SUCH OTHER ENTITY AS IS REQUESTED BY AN AUTHORIZED REPRESENTATIVE OF DTC), ANY TRANSFER, PLEDGE OR OTHER USE HEREOF FOR VALUE OR OTHERWISE BY OR TO ANY PERSON IS WRONGFUL INASMUCH AS THE REGISTERED OWNER HEREOF, CEDE & CO., HAS AN INTEREST HEREIN.

TRANSFERS OF THIS GLOBAL SECURITY SHALL BE LIMITED TO TRANSFERS IN WHOLE, BUT NOT IN PART, TO NOMINEES OF DTC OR TO A SUCCESSOR THEREOF OR SUCH SUCCESSOR'S NOMINEE AND TRANSFERS OF PORTIONS OF THIS GLOBAL SECURITY SHALL BE LIMITED TO TRANSFERS MADE IN ACCORDANCE WITH THE RESTRICTIONS SET FORTH IN THE INDENTURE REFERRED TO ON THE REVERSE HEREOF.]

[Insert, if applicable — THIS SECURITY IS A GLOBAL SECURITY WITHIN THE MEANING OF THE INDENTURE HEREINAFTER REFERRED TO AND IS REGISTERED IN THE NAME OF A DEPOSITARY OR A NOMINEE THEREOF. THIS SECURITY MAY NOT BE EXCHANGED IN WHOLE OR IN PART FOR A SECURITY REGISTERED, AND NO TRANSFER OF THIS SECURITY IN WHOLE OR IN PART MAY BE REGISTERED, IN THE NAME OF ANY PERSON OTHER THAN SUCH DEPOSITARY OR A NOMINEE THEREOF, EXCEPT IN THE LIMITED CIRCUMSTANCES DESCRIBED IN THE INDENTURE. EVERY SECURITY AUTHENTICATED AND DELIVERED UPON REGISTRATION OF TRANSFER OF, OR IN EXCHANGE FOR OR IN LIEU OF, THIS SECURITY SHALL BE A GLOBAL SECURITY SUBJECT TO THE FOREGOING, EXCEPT IN SUCH LIMITED CIRCUMSTANCES.]

If Securities of a series are issuable in whole or in part in the form of one or more Global Securities, as contemplated by Section 3.01, then, notwithstanding Clause (i) of Section 3.01 and the provisions of Section 3.02, any Global Security shall represent such of the Outstanding Securities of such series as shall be specified therein and may provide that it shall represent the aggregate amount of Outstanding Securities from time to time endorsed thereon and that the aggregate amount of Outstanding Securities represented thereby may from time to time be reduced or increased, as the case may be, to reflect exchanges. Any endorsement of a Global Security to reflect the amount, or any reduction or increase in the amount, of Outstanding Securities represented thereby shall be made in such manner and upon instructions given by such Person or Persons as shall be specified therein or in a Company Order. Subject to the provisions of Sections 3.03, 3.04, 3.05 and 3.06, the Trustee shall deliver and redeliver any Global Security in the manner and upon instructions given by the Person or Persons specified therein or in the applicable Company Order. Any instructions by the Company with respect to endorsement or delivery or redelivery of a Global Security shall be in a Company Order (which need not comply with Section 1.02 and need not be accompanied by an Opinion of Counsel).

The provisions of the last sentence of Section 3.03 shall apply to any Security represented by a Global Security if such Security was never issued and sold by the Company and the Company delivers to the Trustee the Global Security together with a Company Order (which need not comply with Section 1.02 and need not be accompanied by an Opinion of Counsel) with regard to the reduction in the principal amount of Securities represented thereby, together with the written statement contemplated by the last sentence of Section 3.03.

Section 2.03 Form of Trustee's Certificate of Authentication.

The Trustee's certificates of authentication shall be in substantially the following form:

TRUSTEE'S CERTIFICATE OF AUTHENTICATION

This is one of the debt Securities of the series designated herein and referred to in the within-mentioned Indenture.

[_____],
As Trustee

By:

Authorized Signatory

ARTICLE III. THE SECURITIES

Section 3.01 Amount Unlimited; Issuable in Series.

The aggregate principal amount of Securities that may be authenticated and delivered under this Indenture is unlimited.

The Securities may be issued in one or more series. There shall be established in or pursuant to a Board Resolution and, subject to Section 3.03, to the extent established pursuant to, rather than set forth in, a Board Resolution, in an Officer's Certificate or Company Order setting forth, or determining the manner of, such establishment, or established in one or more indentures supplemental hereto, prior to the issuance of Securities of any series:

- (a) the form and title of the Securities of the series (which shall distinguish the Securities of the series from Securities of any other series);
- (b) any limit upon the aggregate principal amount of the Securities of the series that may be authenticated and delivered under this Indenture (except for Securities authenticated and delivered upon registration of transfer of, or in exchange for, or in lieu of, other Securities of the series pursuant to Section 3.04, 3.05, 3.06, 9.06 or 11.07 and except for any Securities which, pursuant to Section 3.03, are deemed never to have been authenticated and delivered hereunder); provided, however, that the authorized aggregate principal amount of such series may from time to time be increased above such amount by a Board Resolution to such effect;
- (c) the issue price or prices of originally issued Securities, expressed as a percentage of the principal amount, and the original issue date;
- (d) the Person to whom any interest on a Security of the series shall be payable, if other than the Person in whose name that Security (or one or more Predecessor Securities) is registered at the close of business on the Regular Record Date for such interest;
- (e) the date or dates on which the Securities will be issued and on which principal of, and premium, if any, on, any Securities of the series is payable or the method of determination thereof;
- (f) the rate or rates (which may be fixed or variable, or a combination thereof) at which any Securities of the series shall bear interest, if any, or the method of determination thereof, the date or dates from which any such interest shall accrue, or the method of determination thereof, the Interest Payment Dates on which any such interest shall be payable and the Regular Record Date for any such interest payable on any Interest Payment Date, or the method by which such date or dates shall be determined, and the basis upon which interest shall be calculated if other than that of a 360-day year of twelve 30-day months, the right, if any, to extend or defer interest payments and the duration of such extension or deferral;
- (g) the place or places where, subject to the provisions of Section 10.02, the principal of and any premium and interest on any Securities of the series shall be payable, Securities of the series may be surrendered for registration or transfer, Securities of the series may be surrendered for exchange, and notices and demands to or upon the Company in respect of the Securities of the series and this Indenture may be served;
- (h) the period or periods, if any, within which, the price or prices at which and the terms and conditions upon which any Securities of the series may be redeemed, in whole or in part, at the option of the Company and, if other than by a Board Resolution, the manner in which any election by the Company to redeem the Securities shall be evidenced;
- (i) the obligation, if any, and the option, if any, of the Company to redeem, purchase or repay any Securities of the series pursuant to any sinking fund, amortization or analogous provisions or upon the happening of a specified event or at the option of the Holder thereof and the period or periods within which, the price or prices at which and the terms and conditions upon which any Securities of the series shall be redeemed, purchased or repaid, in whole or in part, pursuant to such obligation or option;

(j) if other than a minimum denomination equal to \$2,000 or an integral multiple of \$1,000 in excess thereof, the denominations in which any Securities of the series shall be issuable;

(k) if the debt Securities will be issued in registered or bearer form or both and, if in bearer form, the related terms and conditions and any limitations on issuance of such bearer debt Securities (including exchange for registered debt Securities of the same series);

(l) if the amount of principal of or any premium or interest on any Securities of the series may be determined with reference to an index including an index based on a currency or currencies other than in which the Securities of that series are payable or pursuant to a formula, the manner in which such amounts shall be determined;

(m) if other than the currency of the United States of America, the currency, currencies or currency units in which the principal of or any premium or interest on any Securities of the series shall be denominated, payable, redeemable or purchasable and the manner of determining the equivalent thereof in the currency of the United States of America for any purpose, including for purposes of the definition of "Outstanding" in [Section 1.01](#);

(n) if the principal of or any premium or interest on any Securities of the series is to be payable, redeemable or purchasable, at the election of the Company or the Holder thereof, in one or more currencies or currency units other than that or those in which such Securities are stated to be payable, redeemable, or purchasable, the currency, currencies or currency units in which the principal of or any premium or interest on such Securities as to which such election is made shall be payable, redeemable or purchasable, the periods within which and the terms and conditions upon which such election is to be made and the amount so payable, redeemable or purchasable (or the manner in which such amount shall be determined);

(o) if other than the entire principal amount thereof, the portion of the principal amount of any Securities of the series which shall be payable upon declaration of acceleration of the Maturity thereof pursuant to [Section 5.02](#) or provable in bankruptcy pursuant to [Section 5.04](#) or the method of determination thereof;

(p) if the principal amount payable at the Stated Maturity of any Securities of the series will not be determinable as of any one or more dates prior to the Stated Maturity, the amount which shall be deemed to be the principal amount of such Securities as of any such date for any purpose thereunder or hereunder, including the principal amount thereof which shall be due and payable upon any Maturity other than the Stated Maturity or which shall be deemed to be Outstanding as of any date prior to the Stated Maturity (or, in any such case, the manner in which such amount deemed to be the principal amount shall be determined);

(q) if applicable, that the Securities of the series, in whole or any specified part, shall be defeasible pursuant to [Section 13.02](#) or [Section 13.03](#) or both such Sections or if other than as provided in [Sections 13.02](#) or [13.03](#), the terms and conditions upon which and the manner in which such series of Securities may be defeased or discharged, and, if other than by a Board Resolution, the manner in which any election by the Company to defease or discharge such Securities shall be evidenced;

(r) if applicable, that any Securities of the series shall be issuable in whole or in part in the form of one or more Global Securities and, in such case, the respective Depositaries for such Global Securities, the form of any legend or legends which shall be borne by any such Global Security in addition to or in lieu of that set forth in [Section 2.04](#), information with respect to book-entry procedures, and any circumstances in addition to or in lieu of those set forth in [Section 3.05](#) in which any such Global Security may be exchanged in whole or in part for Securities registered, and any transfer of such Global Security in whole or in part may be registered, in the name or names of Persons other than the Depositary for such Global Security or a nominee thereof;

(s) if the debt Security is issued as an original issue discount debt Security, and if so, the yield to maturity;

(t) any deletion from, addition to or change in the Events of Default that apply to Securities of the series and any change in the right of the Trustee or the requisite Holders of such Securities to declare the principal amount thereof due and payable pursuant to Section 5.02;

(u) any addition to or change in the covenants set forth in Article X that apply to Securities of the series or in any defined term used in Article X;

(v) the right, if any, of the Company to defer payments of interest by extending the interest payment periods and specify the duration of such extension, the Interest Payment Dates on which such interest shall be payable and whether and under what circumstances additional interest on amounts deferred shall be payable;

(w) if other than the Trustee, the identity of any other trustee, the Security Registrar and any Paying Agent;

(x) if other than as set forth in Article IV, provisions relating to the satisfaction and discharge of this Indenture;

(y) whether the Securities of the series will be guaranteed by any Person or Persons and, if so, the identity of such Person or Persons, the terms and conditions upon which such Securities shall be guaranteed and, if applicable, the terms and conditions upon which such guarantees may be subordinated to other indebtedness of the respective guarantors;

(z) whether the Securities of the series will be secured by any collateral and, if so, the terms and conditions upon which such Securities shall be secured and, if applicable, upon which such liens may be subordinated to other liens securing other indebtedness of the Company or any guarantor;

(aa) whether the Securities will be issued in a transaction exempt from registration under the Securities Act and any restriction or condition on the transferability of the Securities of such series;

(bb) the exchanges, if any, on which the Securities may be listed;

(cc) the terms of any right to convert or exchange Securities of such series into any other securities or property of the Company or of any other corporation or Person, and the additions or changes, if any, to this Indenture with respect to the Securities of such series to permit or facilitate such conversion or exchange; and

(dd) any and all other terms with respect to such series, including, but not limited to, any terms that may be required by or advisable under U.S. laws or regulations or otherwise included in connection with the marketing of the Securities of that series.

All Securities of any one series shall be substantially identical except as to denomination and except as may otherwise be provided in or pursuant to the Board Resolution referred to above and (subject to Section 3.03) set forth, or determined in the manner provided, in the Officer's Certificate referred to above or in any such indenture supplemental hereto. Accordingly, the terms of any Security of a series may differ from the terms of other Securities of the same series, if and to the extent provided pursuant to this Section. The matters referenced in any or all of Clauses (a) through (dd) above may be established and set forth or determined as aforesaid with respect to all or any specific Securities of a series (in each case to the extent permitted by the Trust Indenture Act).

Any such Board Resolution or Officer's Certificate referred to above with respect to Securities of any series filed with the Trustee on or before the initial issuance of the Securities of such series shall be incorporated herein by reference with respect to Securities of such series and shall thereafter be deemed to be a part of this Indenture for all purposes relating to Securities of such series as fully as if such Board Resolution or Officer's Certificate were set forth herein in full.

All Securities of any one series need not be issued at the same time and, unless otherwise provided, a series may be reopened, without the consent of the Holders, for increases in the aggregate principal amount of such series of Securities and issuances of additional Securities of such series or for the establishment of additional terms with respect to the Securities of such series.

If any of the terms of the series are established by action taken pursuant to a Board Resolution, a copy of an appropriate record of such action shall be certified by the Secretary or an Assistant Secretary of the Company and delivered to the Trustee at or prior to the delivery of the Officer's Certificate setting forth the terms of the series.

Section 3.02 Denominations.

The Securities of each series shall be issuable only in registered form without coupons and only in such denominations as shall be specified as contemplated by Section 3.01. In the absence of any such specified denomination with respect to the Securities of any series, the Securities of such series shall be issuable in a denomination equal to \$2,000 or an integral multiple of \$1,000 in excess thereof.

Section 3.03 Execution, Authentication, Delivery and Dating.

The Securities shall be executed on behalf of the Company by its Chairman of the Board, Chief Executive Officer, Chief Financial Officer, or Corporate Secretary (or any other officer of the Company designated in writing by or pursuant to authority of the Board of Directors and delivered to the Trustee from time to time). The signature of any of these officers on the Securities may be manual, electronic or facsimile.

Securities bearing the manual, electronic or facsimile signatures of individuals who were at any time the proper officers of the Company shall bind the Company notwithstanding that such individuals or any of them have ceased to hold such offices prior to the authentication and delivery of such Securities or did not hold such offices at the date of such Securities.

At any time and from time to time after the execution and delivery of this Indenture, the Company may deliver Securities of any series executed by the Company to the Trustee for authentication, together with a Company Order for the authentication and delivery of such Securities, and the Trustee in accordance with the Company Order shall authenticate and deliver such Securities. If the form or terms of the Securities of the series have been established by or pursuant to one or more Board Resolutions as permitted by Sections 2.01 and 3.01, in authenticating such Securities, and accepting the additional responsibilities under this Indenture in relation to such Securities, the Trustee shall be entitled to receive, and (subject to, Section 6.01) shall be fully protected in relying upon, an Opinion of Counsel stating:

(a) if the form of such Securities has been established by or pursuant to a Board Resolution as permitted by Section 2.01, that such form has been established in conformity with the provisions of this Indenture;

(b) if the terms of such Securities have been established by or pursuant to a Board Resolution as permitted by Section 3.01, that such terms have been established in conformity with the provisions of this Indenture; and

(c) that such Securities, when authenticated by the Trustee and issued and delivered by the Company in the manner and subject to any conditions specified in such Opinion of Counsel, will constitute valid and legally binding obligations of the Company, enforceable against the Company in accordance with their terms, subject to bankruptcy, insolvency, fraudulent transfer, reorganization, moratorium and similar laws of general applicability relating to or affecting creditors' rights and to general equity principles or other customary exceptions.

If such form or terms have been so established, the Trustee shall not be required to authenticate such Securities if the issue of such Securities pursuant to this Indenture in accordance with a Board Resolution will materially adversely affect the Trustee's own rights, duties or immunities under the Securities and this Indenture or otherwise in a manner which is not reasonably acceptable to the Trustee.

Notwithstanding the provisions of Section 3.01 and of the preceding paragraph, if all Securities of a series are not to be originally issued at one time, it shall not be necessary, unless the Trustee reasonably determines otherwise, for the Company to deliver a Board Resolution, Officer's Certificate or supplemental indenture otherwise required pursuant to Section 3.01 or the Company Order and Opinion of Counsel otherwise required pursuant to the third paragraph of this Section at or prior to the authentication of each Security of such series if such documents are delivered at or prior to the authentication upon original issuance of the first Security of such series to be issued.

Each Security shall be dated the date of its authentication.

No Security shall be entitled to any benefit under this Indenture or be valid or obligatory for any purpose unless there appears on such Security a certificate of authentication substantially in the form provided for herein executed by the Trustee by manual signature, and such certificate upon any Security shall be conclusive evidence, and the only evidence, that such Security has been duly authenticated and delivered hereunder and is entitled to the benefits of this Indenture. Notwithstanding the foregoing, if any Security shall have been authenticated and delivered hereunder but never issued and sold by the Company, and the Company shall deliver such Security to the Trustee for cancellation as provided in Section 3.09, for all purposes of this Indenture such Security shall be deemed never to have been authenticated and delivered hereunder and shall never be entitled to the benefits of this Indenture.

Section 3.04 Temporary Securities.

Pending the preparation of definitive Securities of any series, the Company may execute, and upon Company Order the Trustee shall authenticate and deliver, temporary Securities which are printed, lithographed, typewritten, mimeographed or otherwise produced, in any authorized denomination, substantially of the tenor of the definitive Securities in lieu of which they are issued and with such appropriate insertions, omissions, substitutions and other variations as the officers executing such Securities may determine, as evidenced by their execution of such Securities.

If temporary Securities of any series are issued, the Company will cause definitive Securities of that series to be prepared without unreasonable delay. After the preparation of definitive Securities of such series, the temporary Securities of such series shall be exchangeable for definitive Securities of such series upon surrender of the temporary Securities of such series at the office or agency of the Company in a Place of Payment for that series, without charge to the Holder. Upon surrender for cancellation of any one or more temporary Securities of any series, the Company shall execute and the Trustee shall authenticate and deliver in exchange therefor one or more definitive Securities of the same series, of any authorized denominations and of like tenor and aggregate principal amount. Until so exchanged, the temporary Securities of any series shall in all respects be entitled to the same benefits under this Indenture as definitive Securities of such series and tenor.

Section 3.05 Registration; Registration of Transfer and Exchange.

The Company shall cause to be kept at the Corporate Trust Office or other designated office of the Trustee a register (the "**Security Register**") in which, subject to such reasonable regulations as it may prescribe, the Company shall provide for the registration of Securities and of transfers of Securities entitled to registration or transfer as provided herein. The Trustee is hereby appointed "**Security Registrar**" for the purpose of registering Securities and transfers of Securities as herein provided. The Company may at any time replace such Security Registrar, change such office or agency or act as its own Security Registrar. The Company will give prompt written notice to the Trustee of any change of the Security Registrar or of the location of such office or agency. At all reasonable times the Security Register shall be available for inspection by the Trustee.

Upon surrender for registration of transfer of any Security of a series at the office or agency of the Company in a Place of Payment for that series, the Company shall execute, and the Trustee shall authenticate and deliver, in the name of the designated transferee or transferees, one or more new Securities of the same series, of any authorized denominations and of like tenor and aggregate principal amount.

At the option of the Holder, Securities of any series (except a Global Security) may be exchanged for other Securities of the same series, of any authorized denominations and of like tenor and aggregate principal amount, upon surrender of the Securities to be exchanged at such office or agency. Whenever any Securities are so surrendered for exchange, the Company shall execute, and the Trustee shall authenticate and deliver, the Securities that the Holder making the exchange is entitled to receive.

All Securities issued upon any registration of transfer or exchange of Securities shall be the valid obligations of the Company, evidencing the same debt, and entitled to the same benefits under this Indenture, as the Securities surrendered upon such registration of transfer or exchange.

Every Security presented or surrendered for registration of transfer or for exchange shall (if so required by the Company or the Trustee) be duly endorsed, or be accompanied by a written instrument of transfer in form satisfactory to the Company and the Security Registrar duly executed, by the Holder thereof or his attorney duly authorized in writing.

No service charge shall be made for any registration of transfer or exchange of Securities, but the Company may require payment of a sum sufficient to cover any tax or other governmental charge that may be imposed in connection with any registration of transfer or exchange of Securities, other than exchanges pursuant to Section 3.04, 9.06 or 11.07 not involving any transfer.

If the Securities of any series (or of any series and specified tenor) are to be redeemed in part, neither the Company nor the Trustee shall be required (A) to issue, register the transfer of or exchange any Securities of that series (or of that series and specified tenor, as the case may be) during a period beginning at the opening of business 15 days before the day of the mailing of a notice of redemption of any such Securities selected for redemption under Section 11.03 and ending at the close of business on the day of such mailing, or (B) to register the transfer of or exchange any Security so selected for redemption in whole or in part, except the unredeemed portion of any Security being redeemed in part.

The provisions of Clauses (a), (b), (c) and (d) below shall apply only to Global Securities:

(a) Each Global Security authenticated under this Indenture shall be registered in the name of the Depository designated for such Global Security or a nominee thereof and delivered to such Depository or a nominee thereof or custodian thereof, and each such Global Security shall constitute a single Security for all purposes of this Indenture.

(b) Notwithstanding any other provision in this Indenture, and subject to such applicable provisions, if any, as may be specified as contemplated by Section 3.01, no Global Security may be exchanged in whole or in part for Securities registered, and no transfer of a Global Security in whole or in part may be registered, in the name of any Person other than the Depository for such Global Security or a nominee thereof unless (1) such Depository has notified the Company that it is unwilling or unable to continue as Depository for such Global Security or has ceased to be a clearing agency registered under the Exchange Act, and a successor Depository is not appointed by the Company within 90 days after the Company's receipt of such notice, (2) there shall have occurred and be continuing an Event of Default with respect to such Global Security and the Security Registrar has received a request from the Depository to issue certificated securities in lieu of the Global Security, (3) the Company shall determine in its sole discretion that Securities of a series issued in global form shall no longer be represented by a Global Security, or (4) there shall exist such circumstances, if any, in addition to or in lieu of the foregoing as have been specified for this purpose as contemplated by Section 3.01, then in any such case, such Global Security may be exchanged by such Depository for definitive Securities of the same series, of any authorized denomination and of a like aggregate principal amount and tenor, registered in the names of, and the transfer of such Global Security or portion thereof may be registered to, such Persons as such Depository shall direct. If the Company designates a successor Depository pursuant to Clause (1) above, such Global Security shall promptly be exchanged in whole for one or more other Global Securities registered in the name of the successor Depository, whereupon such designated successor shall be the Depository for such successor Global Security or Global Securities and the provisions of Clauses (a), (b), (c) and (d) of this Section shall continue to apply thereto.

(c) Subject to Clause (b) above and to such applicable provisions, if any, as may be specified as contemplated by Section 3.01, any exchange of a Global Security for other Securities may be made in whole or in part, and all Securities issued in exchange for a Global Security or any portion thereof shall be registered in such names as the Depository for such Global Security shall direct.

(d) Every Security authenticated and delivered upon registration of transfer of, or in exchange for or in lieu of, a Global Security or any portion thereof, whether pursuant to this Section, Section 3.04, 3.06, 9.06 or 11.07 or otherwise, shall be authenticated and delivered in the form of, and shall be, a Global Security, unless such Security is registered in the name of a Person other than the Depository for such Global Security or a nominee thereof.

Section 3.06 Mutilated, Destroyed, Lost and Stolen Securities.

If any mutilated Security is surrendered to the Trustee, together with such security or indemnity as may be required by the Company or the Trustee to save each of them and any agent of either of them harmless, the Company shall execute and the Trustee shall authenticate and deliver in exchange therefor a new Security of the same series and of like tenor and principal amount and bearing a number not contemporaneously outstanding and shall cancel and dispose of such mutilated security in accordance with its customary procedures.

If there shall be delivered to the Company and the Trustee (i) evidence to their satisfaction of the destruction, loss or theft of any Security and (ii) such security or indemnity as may be required by them to save each of them and any agent of either of them harmless, then, in the absence of notice to the Company or the Trustee that such Security has been acquired by a bona fide purchaser, the Company shall execute and the Trustee shall authenticate and deliver, in lieu of any such mutilated, destroyed, lost or stolen Security, a new Security of the same series and of like tenor and principal amount and bearing a number not contemporaneously Outstanding. If, after the delivery of such new Security, a bona fide purchaser of the original Security in lieu of which such new Security was issued presents for payment or registration such original Security, the Trustee shall be entitled to recover such new Security from the party to whom it was delivered or any party taking therefrom, except a bona fide purchaser, and shall be entitled to recover upon the security or indemnity provided therefor to the extent of any loss, damage, cost or expense incurred by the Company and the Trustee in connection therewith.

In case any such mutilated, destroyed, lost or stolen Security has become or is about to become due and payable, the Company in its discretion may, instead of issuing a new Security, pay such Security.

Upon the issuance of any new Security, the Company may require the payment of a sum sufficient to cover any tax or other governmental charge that may be imposed in relation thereto and any other expenses (including the fees and expenses of counsel to the Company and the fees and expenses of the Trustee and its counsel) connected therewith.

Every new Security of any series issued pursuant to this Section in lieu of any mutilated, destroyed, lost or stolen Security shall constitute an original additional contractual obligation of the Company, whether or not the mutilated, destroyed, lost or stolen Security shall be at any time enforceable by anyone, and shall be entitled to all the benefits of this Indenture equally and proportionately with any and all other Securities of that series duly issued hereunder.

The provisions of this Section are exclusive and shall preclude (to the extent lawful) all other rights and remedies with respect to the replacement or payment of mutilated, destroyed, lost or stolen Securities.

Section 3.07 Payment of Interest; Interest Rights Preserved.

Except as otherwise provided as contemplated by Section 3.01 with respect to any series of Securities, interest on any Security which is payable, and is punctually paid or duly provided for, on any Interest Payment Date shall be paid to the Person in whose name that Security (or one or more Predecessor Securities) is registered at the close of business on the Regular Record Date for such interest.

Any interest on any Security of any series which is payable, but is not punctually paid or duly provided for, on any Interest Payment Date (herein called "**Defaulted Interest**") shall forthwith cease to be payable to the Holder on the relevant Regular Record Date by virtue of having been such Holder, and such Defaulted Interest may be paid by the Company, at its election in each case, as provided in Clause (a) or (b) below:

(a) The Company may elect to make payment of any Defaulted Interest to the Persons in whose names the Securities of such series (or their respective Predecessor Securities) are registered at the close of business on a Special Record Date for the payment of such Defaulted Interest, which shall be fixed in the following manner. The Company shall notify the Trustee in writing of the amount of Defaulted Interest proposed to be paid on each Security of such series and the date of the proposed payment, and at the same time the Company shall deposit with the Trustee an amount of money equal to the aggregate amount proposed to be paid in respect of such Defaulted Interest or shall make arrangements satisfactory to the Trustee for such deposit prior to the date of the proposed payment, such money when deposited to be held in trust for the benefit of the Persons entitled to such Defaulted Interest as in this Clause provided. Thereupon the Trustee, in consultation with the Company, shall fix a Special Record Date for the payment of such Defaulted Interest which shall be not more than 15 days and not less than 10 days prior to the date of the proposed payment and not less than 10 days after the receipt by the Trustee of the notice of the proposed payment. The Trustee shall promptly notify the Company of such Special Record Date and, in the name and at the expense of the Company, shall cause notice of the proposed payment of such Defaulted Interest and the Special Record Date therefor to be given to each Holder of Securities of such series in the manner set forth in Section 1.06, not less than 10 days prior to such Special Record Date. Notice of the proposed payment of such Defaulted Interest and the Special Record Date therefor having been so mailed, such Defaulted Interest shall be paid to the Persons in whose names the Securities of such series (or their respective Predecessor Securities) are registered at the close of business on such Special Record Date and shall no longer be payable pursuant to the following Clause (b).

(b) The Company may make payment of any Defaulted Interest on the Securities of any series in any other lawful manner not inconsistent with the requirements of any securities exchange on which such Securities may be listed, and upon such notice as may be required by such exchange, if, after notice given by the Company to the Trustee of the proposed payment pursuant to this Clause, such manner of payment shall be deemed practicable by the Trustee.

Subject to the foregoing provisions of this Section and Section 3.05, each Security delivered under this Indenture upon registration of transfer of or in exchange for or in lieu of any other Security shall carry the rights to interest accrued and unpaid, and to accrue, which were carried by such other Security.

For each series of Securities, the Company shall, prior to Noon, New York City time, on each payment date for principal and premium, if any, and interest, if any, deposit with the Trustee money in immediately available funds sufficient to make cash payments due on the applicable payment date.

In the case of any Security which is converted after any Regular Record Date and on or prior to the next succeeding Interest Payment Date (other than any Security whose Maturity is prior to such Interest Payment Date), interest whose Stated Maturity is on such Interest Payment Date shall be payable on such Interest Payment Date notwithstanding such conversion, and such interest (whether or not punctually paid or made available for payment) shall be paid to the Person in whose name that Security (or one or more Predecessor Securities) is registered at the close of business on such Regular Record Date. Except as otherwise expressly provided in the immediately preceding sentence, in the case of any Security which is converted, interest whose Stated Maturity is after the date of conversion of such Security shall not be payable. Notwithstanding the foregoing, the terms of any Security that may be converted may provide that the provisions of this paragraph do not apply, or apply with such additions, changes or omissions as may be provided thereby, to such Security.

Section 3.08 Persons Deemed Owners.

Except as otherwise contemplated by Section 3.01 with respect to any series of Securities, prior to due presentment of a Security for registration of transfer, the Company, the Trustee and any agent of the Company or the Trustee may treat the Person in whose name such Security is registered as the owner of such Security for the purpose of receiving payment of principal of and any premium and (subject to Sections 3.05 and 3.07) any interest on such Security and for all other purposes whatsoever, whether or not such Security be overdue, and neither the Company, the Trustee nor any agent of the Company or the Trustee shall be affected by notice to the contrary.

No holder of any beneficial interest in any Global Security held on its behalf by a Depositary shall have any rights under this Indenture with respect to such Global Security, and such Depositary may be treated by the Company, the Trustee and any agent of the Company or the Trustee as the owner of such Global Security for all purposes whatsoever. None of the Company, the Trustee nor any agent of the Company or the Trustee will have any responsibility or liability for any aspect of the records relating to or payments made on account of beneficial ownership interests of a Global Security or for maintaining, supervising or reviewing any records relating to such beneficial ownership interests.

Section 3.09 Cancellation.

All Securities surrendered for payment, redemption, registration of transfer or exchange or conversion or for credit against any sinking fund payment shall, if surrendered to any Person other than the Trustee, be delivered to the Trustee and, if not already cancelled, shall be promptly cancelled by it. The Company may at any time deliver to the Trustee for cancellation any Securities previously authenticated and delivered hereunder which the Company may have acquired in any manner whatsoever, and may deliver to the Trustee (or to any other Person for delivery to the Trustee) for cancellation any Securities previously authenticated hereunder which the Company has not issued and sold, and all Securities so delivered shall be promptly cancelled by the Trustee. No Securities shall be authenticated in lieu of or in exchange for any Securities cancelled as provided in this Section, except as expressly permitted by this Indenture. All cancelled Securities held by the Trustee shall be disposed of in accordance with its customary procedures as directed by a Company Order, and the Trustee shall thereafter deliver to the Company a certificate with respect to such disposition.

Section 3.10 Computation of Interest.

Except as otherwise specified as contemplated by Section 3.01 for Securities of any series, interest on the Securities of each series shall be computed on the basis of a 360-day year of twelve 30-day months.

Section 3.11 CUSIP Numbers

The Company in issuing the Securities may use "CUSIP" or "ISIN" numbers (in addition to the other identification numbers printed on the Securities), if then in use, and, if so, the Trustee shall use such "CUSIP" or "ISIN" numbers in notices of redemption as a convenience to Holders; provided, however, that any such notice may state that no representation is made as to the correctness of such "CUSIP" or "ISIN" numbers either as printed on the Securities or as contained in any notice of a redemption and that reliance may be placed only on the other identification numbers printed on the Securities, and any such redemption shall not be affected by any defect in or omission of such "CUSIP" or "ISIN" numbers. The Company will promptly notify the Trustee of any change in the "CUSIP" or "ISIN" numbers.

Section 3.12 Original Issue Discount.

If any of the Securities is an Original Issue Discount Security, the Company shall file with the Trustee promptly at the end of each calendar year (1) a written notice specifying the amount of original issue discount (including daily rates and accrual periods) accrued on such Outstanding Original Issue Discount Securities as of the end of such year and (2) such other specific information relating to such original issue discount as may then be relevant under the Internal Revenue Code.

ARTICLE IV. SATISFACTION AND DISCHARGE

Section 4.01 Satisfaction and Discharge of Indenture.

This Indenture shall, upon Company Request, cease to be of further effect with respect to Securities of any series (except as to any surviving rights of registration of transfer or exchange of Securities herein expressly provided for), and the Trustee, at the expense of the Company, shall execute proper instruments acknowledging satisfaction and discharge of this Indenture with respect to such Securities, when:

(a) either:

(i) all such Securities theretofore authenticated and delivered (other than (i) such Securities which have been mutilated, destroyed, lost or stolen and which have been replaced or paid as provided in Section 3.06 and (ii) such Securities for whose payment money has theretofore been deposited in trust or segregated and held in trust by the Company and thereafter repaid to the Company or discharged from such trust, as provided in Section 10.03) have been delivered to the Trustee cancelled or for cancellation; or

(ii) all such Securities not theretofore delivered to the Trustee as cancelled or for cancellation:

(1) have become due and payable; or

(2) will become due and payable at their Stated Maturity within one year; or

(3) are to be called for redemption within one year under arrangements satisfactory to the Trustee for the giving of notice of redemption by the Trustee in the name, and at the expense, of the Company,

and the Company in the case of (1), (2) or (3) above, has deposited or caused to be deposited with the Trustee, as trust funds in trust for such purpose, an amount of money in the currency or currency units in which such Securities are payable sufficient to pay and discharge the entire indebtedness on such Securities not theretofore delivered to the Trustee as cancelled or for cancellation, for principal and any premium and interest to the date of such deposit (in the case of such Securities which have become due and payable) or to the Stated Maturity or Redemption Date, as the case may be;

(b) the Company has paid or caused to be paid, or otherwise made provision for the payment of, all other sums payable hereunder by the Company with respect to such Securities; and

(c) the Company has delivered to the Trustee an Officer's Certificate and an Opinion of Counsel each stating that all conditions precedent herein provided for relating to the satisfaction and discharge of this Indenture with respect to such Securities have been complied with.

Notwithstanding the satisfaction and discharge of this Indenture with respect to Securities of any series, the obligations of the Company to the Trustee under Section 6.07, the obligations of the Trustee to any Authenticating Agent under Section 6.14 and the right of the Trustee to resign under Section 6.10 shall survive, and, if money shall have been deposited with the Trustee pursuant to subclause (2) of Clause (a) of this Section, the obligations of the Trustee under Section 4.02 and the last paragraph of Section 10.03 shall survive such satisfaction and discharge.

Section 4.02 Application of Trust Money.

Subject to the provisions of the last paragraph of Section 10.03, all money deposited with the Trustee pursuant to Section 4.01 shall be held in trust and applied by it, in accordance with the provisions of the Securities and this Indenture, to the payment, either directly or through any Paying Agent (including the Company acting as its own Paying Agent) as the Trustee may determine, to the Persons entitled thereto, of the principal and any premium and interest for whose payment such money has been deposited with the Trustee. All money deposited with the Trustee pursuant to Section 4.01 (and held by it or any Paying Agent) for the payment of such Securities subsequently converted into other property shall be returned to the Company upon Company Request. The Company may direct by a Company Order the investment of any money deposited with the Trustee pursuant to Section 4.01, without distinction between principal and income, in (1) United States Treasury Securities with a maturity of one year or less or (2) a money market fund that invests solely in short term United States Treasury Securities (including money market funds for which the Trustee or an affiliate of the Trustee serves as investment advisor, administrator, shareholder, servicing agent and/or custodian or sub-custodian, notwithstanding that (a) the Trustee charges and collects fees and expenses from such funds for services rendered and (b) the Trustee charges and collects fees and expenses for services rendered pursuant to this Indenture at any time), and from time to time the Company may direct the reinvestment of all or a portion of such money in other securities or funds meeting the criteria specified in Clause (1) or (2) of this Section.

ARTICLE V. REMEDIES

Section 5.01 Events of Default.

Except as may otherwise be provided pursuant to Section 3.01 for Securities of any series, an “**Event of Default**”, wherever used herein or in a Security issued hereunder with respect to Securities of any series, means any one of the following events (whatever the reason for such Event of Default and whether it shall be voluntary or involuntary or be effected by operation of law or pursuant to any judgment, decree or order of any court or any order, rule or regulation of any administrative or governmental body):

(a) default in the payment of any interest upon any Security of that series when it becomes due and payable, and continuance of such default for a period of 30 days;

(b) default in the payment of the principal of or any premium on any Security of that series at its Maturity;

(c) default in the deposit of any sinking fund payment, when and as due by the terms of a Security of that series;

(d) default in the performance, or breach, of any covenant of the Company in this Indenture (other than a default in the performance or the breach of a covenant which is specifically dealt with elsewhere in this Section or which has expressly been included in this Indenture solely for the benefit of series of Securities other than that series), and continuance of such default or breach for a period of 90 days after there has been given to the Company by the Trustee or to the Company and the Trustee by the Holders of at least 25% in aggregate principal amount of the Outstanding Securities of that series a written notice specifying such default or breach and requiring it to be remedied and stating that such notice is a “Notice of Default” hereunder;

(e) the entry by a court having jurisdiction in the premises of (1) a decree or order for relief in respect of the Company in an involuntary case or proceeding under any applicable Federal or State bankruptcy, insolvency, reorganization or other similar law or (2) a decree or order adjudging the Company bankrupt or insolvent, or approving as properly filed a petition seeking reorganization, arrangement, adjustment or composition of or in respect of the Company under any applicable Federal or State law, or appointing a custodian, receiver, liquidator, assignee, trustee, sequestrator or other similar official of the Company or of any substantial part of its property, or ordering the winding up or liquidation of its affairs, and the continuance of any such decree or order for relief or any such other decree or order unstayed and in effect for a period of 90 consecutive days;

(f) the commencement by the Company of a voluntary case or proceeding under any applicable Federal or State bankruptcy, insolvency, reorganization or other similar law or of any other case or proceeding to be adjudicated a bankrupt or insolvent, or the consent by it to the entry of a decree or order for relief in respect of the Company in an involuntary case or proceeding under any applicable Federal or State bankruptcy, insolvency, reorganization or other similar law or to the commencement of any bankruptcy or insolvency case or proceeding against it, or the filing by it of a petition or answer or consent seeking reorganization, arrangement, adjustment or composition of or in respect of the Company under any applicable Federal or State law, or the consent by it to the filing of such petition or to the appointment of or taking possession by a custodian, receiver, liquidator, assignee, trustee, sequestrator or other similar official of the Company of any substantial part of its property, or the making by it of an assignment for the benefit of creditors, or the admission by it in writing of its inability to pay its debts generally as they become due, or the taking of corporate action by the Company in furtherance of any such action; or

(g) any other Event of Default provided as contemplated by Section 3.01 with respect to Securities of that series.

Section 5.02 Acceleration of Maturity; Rescission and Annulment.

If an Event of Default (other than an Event of Default specified in Section 5.01(e) or 5.01(f)) with respect to Securities of any series at the time Outstanding occurs and is continuing, then in every such case the Trustee or the Holders of not less than 25% in aggregate principal amount of the Outstanding Securities of that series may declare the principal amount of all the Securities of that series (or, if any Securities of that series are Original Issue Discount Securities, such portion of the principal amount of such Securities as may be specified by the terms thereof) to be due and payable immediately, by a notice in writing to the Company (and to the Trustee if given by Holders), and upon any such declaration such principal amount (or specified amount) shall become immediately due and payable. If an Event of Default specified in Section 5.01(e) or 5.01(f) with respect to Securities of any series at the time Outstanding occurs, the principal amount of all the Securities of that series (or, if any Securities of that series are Original Issue Discount Securities, such portion of the principal amount of such Securities as may be specified by the terms thereof) shall automatically, and without any declaration or other action on the part of the Trustee or any Holder, become immediately due and payable. Upon payment of such amount, all obligations of the Company in respect of the payment of principal and interest of the Securities of such series shall terminate.

Except as may otherwise be provided pursuant to Section 3.01 for all or any specific Securities of any series, at any time after such a declaration of acceleration with respect to Securities of any series has been made and before a judgment or decree for payment of the money due has been obtained by the Trustee as hereinafter in this Article provided, the Holders of a majority in aggregate principal amount of the Outstanding Securities of that series, by written notice to the Company and the Trustee, may rescind and annul such declaration and its consequences if:

(a) the Company has paid or deposited with the Trustee a sum sufficient to pay:

(i) all overdue interest on all Securities of that series;

(ii) the principal of (and premium, if any, on) any Securities of that series which have become due otherwise than by such declaration of acceleration and any interest thereon at the rate or rates prescribed therefor in such Securities;

(iii) to the extent that payment of such interest is lawful, interest upon overdue interest at the rate or rates prescribed therefor in such Securities; and

(iv) all sums paid or advanced by the Trustee hereunder and the reasonable compensation, expenses, disbursements and advances of the Trustee, its agents and counsel, and

(b) all Events of Default with respect to Securities of that series, other than the non-payment of the principal of Securities of that series which have become due solely by such declaration of acceleration, have been cured or waived as provided in Section 5.13.

No such rescission shall affect any subsequent default or impair any right consequent thereon.

Section 5.03 Collection of Indebtedness and Suits for Enforcement by Trustee.

The Company covenants that if:

(a) default is made in the payment of any interest on any Security when such interest becomes due and payable and such default continues for a period of 30 days; or

(b) default is made in the payment of the principal of (or premium, if any, on) any Security at the Maturity thereof,

then the Company will, upon demand of the Trustee, pay to the Trustee, for the benefit of the Holders of such Securities, the whole amount then due and payable on such Securities for principal and any premium and interest and, to the extent that payment of such interest shall be legally enforceable, interest on any overdue principal and premium and on any overdue interest, at the rate or rates prescribed therefor in such Securities, and, in addition thereto, such further amount as shall be sufficient to cover the costs and expenses of collection, including the reasonable compensation, expenses, disbursements and advances of the Trustee, its agents and counsel.

If the Company fails to pay such amounts forthwith upon such demand, the Trustee, in its own name and as trustee of an express trust, may institute a judicial proceeding for the collection of the sums so due and unpaid, and may prosecute such proceeding to judgment or final decree, and may enforce the same against the Company or any other obligor upon the Securities and collect the moneys adjudged or decreed to be payable in the manner provided by law out of the property of the Company or any other obligor upon the Securities, wherever situated.

If an Event of Default with respect to Securities of any series occurs and is continuing, the Trustee may in its discretion proceed to protect and enforce its rights and the rights of the Holders of Securities of such series by such appropriate judicial proceedings as the Trustee shall deem most effectual to protect and enforce any such rights, whether for the specific enforcement of any covenant or agreement in this Indenture or in aid of the exercise of any power granted herein, or to enforce any other proper remedy.

Section 5.04 Trustee May File Proofs of Claim.

In case of any judicial proceeding relative to the Company (or any other obligor upon the Securities), its property or its creditors, the Trustee (irrespective of whether the principal of the Securities shall then be due and payable as therein expressed or by declaration or otherwise and irrespective of whether the Trustee shall have made any demand for overdue principal or interest) shall be entitled and empowered, by intervention in such proceeding or otherwise, to take any and all actions authorized under the Trust Indenture Act in order to have claims of the Holders and the Trustee allowed in any such proceeding. In particular, the Trustee shall be authorized to collect and receive any moneys or other property payable or deliverable on any such claims and to distribute the same; and any custodian, receiver, assignee, trustee, liquidator, sequestrator or other similar official in any such judicial proceeding is hereby authorized by each Holder to make such payments to the Trustee and, in the event that the Trustee shall consent to the making of such payments directly to the Holders, to pay to the Trustee any amount due it for the reasonable compensation, expenses, disbursements and advances of the Trustee, its agents and counsel, and any other amounts due the Trustee under Section 6.07.

No provision of this Indenture shall be deemed to authorize the Trustee to authorize or consent to or accept or adopt on behalf of any Holder any plan of reorganization, arrangement, adjustment or composition affecting the Securities or the rights of any Holder thereof or to authorize the Trustee to vote in respect of the claim of any Holder in any such proceeding; provided, however, that the Trustee may, on behalf of the Holders, vote for the election of a trustee in bankruptcy or similar official and be a member of a creditors' or other similar committee.

Section 5.05 Trustee May Enforce Claims Without Possession of Securities.

All rights of action and claims under this Indenture or the Securities may be prosecuted and enforced by the Trustee without the possession of any of the Securities or the production thereof in any proceeding relating thereto, and any such proceeding instituted by the Trustee shall be brought in its own name as trustee of an express trust, and any recovery shall after provision for the payment of the reasonable compensation, expenses, disbursements and advances of the Trustee, its agents and counsel, be for the ratable benefit of the Holders of the Securities in respect of which such judgment has been recovered.

Section 5.06 Application of Money Collected.

Any money or property collected or to be applied by the Trustee pursuant to this Article shall be applied in the following order, at the date or dates fixed by the Trustee and, in case of the distribution of such money on account of principal or any premium or interest, upon presentation of the Securities and the notation thereon of the payment if only partially paid and upon surrender thereof if fully paid:

First: To the payment of all amounts due the Trustee under Section 6.07;

Second: To the payment of the amounts then due and unpaid for principal of and any premium and interest on the Securities in respect of which or for the benefit of which such money has been collected, ratably, without preference or priority of any kind (other than contractual subordination agreements pursuant to the Indenture), according to the amounts due and payable on such Securities for principal and any premium and interest, respectively; and

Third: The balance, if any, to the Company.

Section 5.07 Limitation on Suits.

No Holder of any Security of any series shall have any right to institute any proceeding, judicial or otherwise, with respect to this Indenture, or for the appointment of a receiver, assignee, trustee, liquidator or sequester (or similar official) or for any other remedy hereunder, unless:

- (a) such Holder has previously given written notice to the Trustee of a continuing Event of Default with respect to the Securities of that series;
- (b) the Holders of not less than 25% in aggregate principal amount of the Outstanding Securities of that series shall have made written request to the Trustee to institute proceedings in respect of such Event of Default in its own name as Trustee hereunder;
- (c) such Holder or Holders have offered, and if requested, provided to the Trustee reasonable security or indemnity against the costs, expenses and liabilities to be incurred in compliance with such request;
- (d) the Trustee for 60 days after its receipt of such notice, request and offer and, if requested, provision of security or indemnity, has failed to institute any such proceeding; and
- (e) no direction inconsistent with such written request has been given to the Trustee during such 60-day period by the Holders of a majority in aggregate principal amount of the Outstanding Securities of that series,

it being understood and intended that no one or more of such Holders shall have any right in any manner whatever by virtue of, or by availing of, any provision of this Indenture to affect, disturb or prejudice the rights of any other of such Holders, or to obtain or to seek to obtain priority or preference over any other of such Holders or to enforce any right under this Indenture, except in the manner herein provided and for the equal and ratable benefit of all of such Holders.

Section 5.08 Unconditional Right of Holders to Receive Principal Premium and Interest and to Convert Securities.

Notwithstanding any other provision in this Indenture, the Holder of any Security shall have the right, which is absolute and unconditional to receive payment of the principal of and any premium and (subject to Sections 3.05 and 3.07) interest on such Security on the respective Stated Maturities expressed in such Security (or, in the case of redemption, on the Redemption Date or, if the terms of such Security so provide, to convert such Security in accordance with its terms) and to institute suit for the enforcement of any such payment and, if applicable, any such right to convert, and such rights shall not be impaired without the consent of such Holder.

Section 5.09 Restoration of Rights and Remedies.

If the Trustee or any Holder has instituted any proceeding to enforce any right or remedy under this Indenture and such proceeding has been discontinued or abandoned for any reason, or has been determined adversely to the Trustee or to such Holder, then and in every such case, subject to any determination in such proceeding, the Company, the Trustee and the Holders shall be restored severally and respectively to their former positions hereunder and thereafter all rights and remedies of the Trustee and the Holders shall continue as though no such proceeding had been instituted.

Section 5.10 Rights and Remedies Cumulative.

Except as otherwise provided with respect to the replacement or payment of mutilated, destroyed, lost or stolen Securities in the last paragraph of Section 3.06, no right or remedy herein conferred upon or reserved to the Trustee or to the Holders is intended to be exclusive of any other right or remedy, and every right and remedy shall, to the extent permitted by law, be cumulative and in addition to every other right and remedy given hereunder or now or hereafter existing at law or in equity or otherwise. The assertion or employment of any right or remedy hereunder, or otherwise, shall not prevent the concurrent assertion or employment of any other appropriate right or remedy.

Section 5.11 Delay or Omission Not Waiver.

No delay or omission of the Trustee or of any Holder of any Securities to exercise any right or remedy accruing upon any Event of Default shall impair any such right or remedy or constitute a waiver of any such Event of Default or an acquiescence therein. Every right and remedy given by this Article or by law to the Trustee or to the Holders may be exercised from time to time, and as often as may be deemed expedient, by the Trustee or by the Holders, as the case may be.

Section 5.12 Control by Holders.

Subject to Section 6.03, the Holders of not less than a majority in aggregate principal amount of the Outstanding Securities of any series shall have the right to direct the time, method and place of conducting any proceeding for any remedy available to the Trustee, or exercising any trust or power conferred on the Trustee, with respect to the Securities of such series; provided that:

- (a) such direction shall not be in conflict with any rule of law or with this Indenture; and
- (b) the Trustee may take any other action deemed proper by the Trustee which is not inconsistent with such direction.

Section 5.13 Waiver of Past Defaults.

The Holders of not less than a majority in aggregate principal amount of the Outstanding Securities of any series may on behalf of the Holders of all the Securities of such series waive any past default hereunder with respect to such series and its consequences, except a default:

- (a) in the payment of the principal of or any premium or interest on any Security of such series; or
- (b) in respect of a covenant or provision hereof which under Article IX cannot be modified or amended without the consent of the Holder of each Outstanding Security of such series affected.

Upon any such waiver, such default shall cease to exist, and any Event of Default arising therefrom shall be deemed to have been cured, for every purpose of this Indenture; but no such waiver shall extend to any subsequent or other default or impair any right consequent thereon.

Section 5.14 Undertaking for Costs.

In any suit for the enforcement of any right or remedy under this Indenture, or in any suit against the Trustee for any action taken, suffered or omitted by it as Trustee, a court may require any party litigant in such suit to file an undertaking to pay the costs of such suit (including the reasonable compensation, expenses and disbursements of its agents and counsel), and may assess reasonable costs against any such party litigant, in the manner and to the extent provided in the Trust Indenture Act; provided that neither this Section nor the Trust Indenture Act shall be deemed to authorize any court to require such an undertaking or to make such an assessment in any suit instituted by the Company or the Trustee, a suit by a Holder under Section 5.08, or a suit by Holders of more than 10% in aggregate principal amount of the Outstanding Securities.

Section 5.15 Waiver of Usury, Stay or Extension Laws.

The Company covenants (to the extent that it may lawfully do so) that it will not at any time insist upon, or plead, or in any manner whatsoever claim or take the benefit or advantage of, any usury, stay or extension law wherever enacted, now or at any time hereafter in force, which may affect the covenants or the performance of this Indenture; and the Company (to the extent that it may lawfully do so) hereby expressly waives all benefit or advantage of any such law and covenant that it will not hinder, delay or impede the execution of any power herein granted to the Trustee, but will suffer and permit the execution of every such power as though no such law had been enacted.

ARTICLE VI. THE TRUSTEE

Section 6.01 Certain Duties and Responsibilities.

(a) Except during the continuance of an Event of Default with respect to any series of Securities:

(i) the Trustee undertakes to perform such duties and only such duties as are specifically set forth in this Indenture with respect to the Securities of such series, and no implied covenants or obligations shall be read into this Indenture against the Trustee with respect to such series; and

(ii) in the absence of bad faith on its part, the Trustee may conclusively rely, as to the truth of the statements and the correctness of the opinions expressed therein, upon certificates or opinions furnished to the Trustee and conforming to the requirements of this Indenture; but in the case of any such certificates or opinions which by any provision hereof are specifically required to be furnished to the Trustee, the Trustee shall be under a duty to examine the same to determine whether or not they conform to the requirements of this Indenture.

(b) In case an Event of Default with respect to any series of Securities has occurred and is continuing, the Trustee shall exercise with respect to the Securities of such series such of the rights and powers vested in it by this Indenture, and use the same degree of care and skill in their exercise, as a prudent man would exercise under the circumstances in the conduct of his own affairs.

(c) No provision of this Indenture shall be construed to relieve the Trustee from liability for its own negligent action, its own negligent failure to act, or its own willful misconduct, except that:

(i) this Subsection shall not be construed to limit the effect of Subsection (a) of this Section;

(ii) the Trustee shall not be liable for any error of judgment made in good faith by a Responsible Officer, unless it shall be proved that the Trustee was negligent in ascertaining the pertinent facts;

(iii) the Trustee shall not be liable with respect to any action taken or omitted to be taken by it in good faith in accordance with the direction of the Holders of a majority in aggregate principal amount of the Outstanding Securities of any Series relating to the time, method and place of conducting any proceeding for any remedy available to the Trustee, or exercising any trust or power conferred upon the Trustee, under this Indenture with respect to the Securities of such series; and

(iv) no provision of this Indenture shall require the Trustee to expend or risk its own funds or otherwise incur any financial liability in the performance of any of its duties hereunder, or in the exercise of any of its rights and powers, if it shall have reasonable grounds for believing that repayment of such funds or adequate indemnity against such risk or liability is not reasonably assured to it.

(d) Whether or not therein expressly so provided, every provision of this Indenture relating to the conduct or affecting the liability of or affording protection to the Trustee shall be subject to the provisions of this Section.

Section 6.02 Notice of Defaults.

Within 90 days after the occurrence, and during the continuance, of any default with respect to the Securities of any series that is known to the Trustee, the Trustee shall transmit, in the manner and to the extent provided in Section 313(c) of the Trust Indenture Act, notice of all such uncured or unwaived defaults; provided, however, that, except in the case of a default in the payment of the principal of (or premium, if any) or interest on Securities of any series or in the payment of any sinking or purchase fund installment with respect to such Securities, the Trustee shall be protected in withholding such notice if and so long as the board of directors, the executive committee or a trust committee of directors and/or Responsible Officers of the Trustee in good faith determine that the withholding of such notice is in the interests of the Holders of Securities of such series; and provided, further, however, that in the case of any default of the character specified in Section 5.01(d) with respect to the Securities of such series, no such notice to Holders of Securities shall be given until at least 60 days after the occurrence thereof. For the purpose of this Section, the term "default" means any event which is, or after notice or lapse of time or both would become, an Event of Default.

Section 6.03 Certain Rights of Trustee.

Subject to the provisions of Section 6.01:

(a) the Trustee may rely and shall be protected in acting or refraining from acting upon any resolution, certificate, statement, instrument, opinion, report, notice, request, direction, consent, order, bond, debenture, note, other evidence of indebtedness or other paper or document believed by it to be genuine and to have been signed or presented by the proper party or parties;

(b) any request, direction, order or demand of the Company mentioned herein shall be sufficiently evidenced by a Company Request or Company Order, and any resolution of the Board of Directors shall be sufficiently evidenced by a Board Resolution;

(c) whenever in the administration of this Indenture the Trustee shall deem it desirable that a matter be proved or established prior to taking, suffering or omitting any action hereunder, the Trustee (unless other evidence be herein specifically prescribed) may, in the absence of bad faith on its part, rely upon an Officer's Certificate;

(d) the Trustee may consult with counsel and the written advice of such counsel or any Opinion of Counsel shall be full and complete authorization and protection in respect of any action taken, suffered or omitted by it hereunder in good faith and in reliance thereon;

(e) the Trustee shall be under no obligation to exercise any of the rights or powers vested in it by this Indenture at the request or direction of any of the Holders pursuant to this Indenture, unless such Holders shall have offered to the Trustee reasonable security or indemnity satisfactory to it against the costs, expenses and liabilities which might be incurred by it in compliance with such request or direction;

(f) the Trustee shall not be bound to make any investigation into the facts or matters stated in any resolution, certificate, statement, instrument, opinion, report, notice, request, direction, consent, order, bond, debenture, note, other evidence of indebtedness or other paper or document, but the Trustee, in its discretion, may, without obligation to do so, make such further inquiry or investigation into such facts or matters as it may see fit, and, if the Trustee shall determine to make such further inquiry or investigation, it shall be entitled to examine the books, records and premises of the Company, personally or by agent or attorney;

(g) the Trustee may execute any of the trusts or powers hereunder or perform any duties hereunder either directly or by or through agents or attorneys and the Trustee shall not be responsible for any misconduct or negligence on the part of any agent or attorney appointed with due care by it hereunder;

(h) the rights, privileges, protections, immunities and benefits given to the Trustee, including, without limitation, its right to be indemnified, are extended to, and shall be enforceable by, the Trustee in each of its capacities hereunder and to its agents;

(i) the Trustee shall not be liable for any action taken, suffered, or omitted to be taken by it in good faith and reasonably believed by it to be authorized or within the discretion or rights or powers conferred upon it by this Indenture;

(j) in no event shall the Trustee be responsible or liable for special, indirect, or consequential loss or damage of any kind whatsoever (including, but not limited to, loss of profit) irrespective of whether the Trustee has been advised of the likelihood of such loss or damage and regardless of the form of action;

(k) in no event shall the Trustee be responsible or liable for any failure or delay in the performance of its obligations hereunder arising out of or caused by, directly or indirectly, forces beyond its control, including, without limitation, strikes, work stoppages, accidents, acts of war or terrorism, civil or military disturbances, nuclear or natural catastrophes or acts of God, and interruptions, loss or malfunctions of utilities, communications or computer (software and hardware) services (it being understood that the Trustee shall use reasonable efforts which are consistent with accepted practices in the banking industry to avoid and mitigate the effects of such occurrences and to resume performance as soon as practicable under the circumstances);

(l) the Trustee shall not be deemed to have notice of any Default or Event of Default unless written notice of any event which is in fact such a default shall have been received by a Responsible Officer of the Trustee at the Corporate Trust Office of the Trustee, and such notice references the Securities and this Indenture;

(m) the Trustee may request that the Company deliver a certificate setting forth the names of individuals and/or titles of officers authorized at such time to take specified actions pursuant to this Indenture; and

(n) the Trustee agrees to accept and act upon instructions or directions pursuant to this Indenture sent by unsecured e-mail (PDF only), facsimile transmission or other similar unsecured electronic methods; provided, however, that the Company shall provide to the Trustee an incumbency certificate listing designated persons with the authority to provide such instructions, which incumbency certificate shall be amended whenever a person is to be added or deleted from the listing. If the Company elects to give the Trustee e-mail or facsimile transmission instructions (or instructions by a similar electronic method) and the Trustee in its sole and absolute discretion elects to act upon such instructions, the Trustee's understanding of such instructions shall be deemed controlling. The Trustee shall not be liable for any losses, damages, costs, fees or expenses arising directly or indirectly from the Trustee's reliance upon and compliance with such instructions notwithstanding such instructions conflict or inconsistency with a subsequent written instruction. The Company agrees to assume all risks arising out of the use of such electronic methods to submit instructions and directions to the Trustee, including, without limitation, the risk of the Trustee acting on unauthorized instructions, and the risk of interception by third parties.

Section 6.04 Not Responsible for Recitals or Issuance of Securities.

The recitals contained herein and in the Securities, except the Trustee's certificates of authentication, shall be taken as the statements of the Company and neither the Trustee nor any Authenticating Agent assumes any responsibility for their correctness. Neither the Trustee nor any Authenticating Agent makes any representations as to the validity or sufficiency of this Indenture or of the Securities. Neither the Trustee nor any Authenticating Agent shall be accountable for the use or application by the Company of Securities or the proceeds thereof.

Section 6.05 May Hold Securities.

The Trustee, any Authenticating Agent, any Paying Agent, any Security Registrar or any other agent of the Company, in its individual or any other capacity, may become the owner or pledgee of Securities and, subject to Sections 6.08 and 6.13, may otherwise deal with the Company with the same rights it would have if it were not Trustee, Authenticating Agent, Paying Agent, Security Registrar or such other agent.

Section 6.06 Money Held in Trust.

Money held by the Trustee in trust hereunder need not be segregated from other funds except to the extent required by law. The Trustee shall be under no liability for interest on any money received by it hereunder except as otherwise agreed with the Company.

Section 6.07 Compensation and Reimbursement.

The Company agrees:

(i) to pay to the Trustee from time to time such reasonable compensation as shall be agreed in writing between the parties for all services rendered by it hereunder (which compensation shall not be limited by any provision of law in regard to the compensation of a trustee of an express trust);

(ii) except as otherwise expressly provided herein, to reimburse the Trustee upon its request for all reasonable expenses, disbursements and advances incurred or made by the Trustee in accordance with any provision of this Indenture (including the reasonable compensation and the reasonable expenses and disbursements of its agents and counsel), except any such expense, disbursement or advance as may be attributable to its own negligence or willful misconduct, and the Trustee shall provide the Company reasonable notice of any expenditure not in the ordinary course of business; and

(iii) to indemnify the Trustee for, and to hold it harmless against, any loss, liability or expense incurred without negligence or willful misconduct on its part, arising out of or in connection with the acceptance or administration of the trust or trusts hereunder, including the reasonable costs and expenses of defending itself against any claim or liability in connection with the exercise or performance of any of its powers or duties hereunder.

The obligations of the Company under this Section to compensate the Trustee and to pay or reimburse the Trustee for expenses, disbursements and advances shall constitute additional indebtedness hereunder.

Without limiting any rights available to the Trustee under applicable law, when the Trustee incurs expenses or renders services in connection with an Event of Default specified in Section 5.01(e) or Section 5.01(f), the expenses (including the reasonable charges and expenses of its counsel) and the compensation for such services are intended to constitute expenses of administration under any applicable Federal or State bankruptcy, insolvency, reorganization or other similar law.

The provisions of this Section shall survive the satisfaction and discharge of this Indenture and the defeasance of the Securities.

Section 6.08 Conflicting Interests.

If the Trustee has or shall acquire a conflicting interest within the meaning of the Trust Indenture Act, the Trustee shall either eliminate such interest or resign, to the extent and in the manner provided by, and subject to the provisions of, the Trust Indenture Act and this Indenture. To the extent permitted by the Trust Indenture Act, the Trustee shall not be deemed to have a conflicting interest by virtue of being a trustee under this Indenture with respect to Securities of more than one series.

Section 6.09 Corporate Trustee Required, Eligibility.

There shall at all times be one (and only one) Trustee hereunder with respect to the Securities of each series, which may be Trustee hereunder for Securities of one or more other series. Each Trustee shall be a Person that is eligible pursuant to the Trust Indenture Act to act as such and has a combined capital and surplus of at least \$50,000,000. If any such Person publishes reports of condition at least annually, pursuant to law or to the requirements of its supervising or examining authority, then for the purposes of this Section and to the extent permitted by the Trust Indenture Act, the combined capital and surplus of such Person shall be deemed to be its combined capital and surplus as set forth in its most recent report of condition so published. If at any time the Trustee with respect to the Securities of any series shall cease to be eligible in accordance with the provisions of this Section, it shall resign immediately in the manner and with the effect hereinafter specified in this Article.

Section 6.10 Resignation and Removal, Appointment of Successor.

No resignation or removal of the Trustee and no appointment of a successor Trustee pursuant to this Article shall become effective until the acceptance of appointment by the successor Trustee in accordance with the applicable requirements of Section 6.11.

The Trustee may resign at any time with respect to the Securities of one or more series by giving written notice thereof to the Company. If the instrument of acceptance by a successor Trustee required by Section 6.11 shall not have been delivered to the Trustee within 30 days after the giving of such notice of resignation, the resigning Trustee may petition any court of competent jurisdiction for the appointment of a successor Trustee with respect to the Securities of such series.

The Trustee may be removed at any time with respect to the Securities of any series by Act of the Holders of a majority in aggregate principal amount of the Outstanding Securities of such series, by written notice delivered to the Trustee and to the Company. If an instrument of acceptance by a successor Trustee shall not have been delivered to the Trustee within 30 days after giving of such notice of removal, the removed Trustee may petition any court of competent jurisdiction for the appointment of a successor Trustee.

If at any time:

(a) the Trustee shall fail to comply with Section 6.08 after written request therefor by the Company or by any Holder who has been a bona fide Holder of a Security for at least six months;

(b) the Trustee shall cease to be eligible under Section 6.09 and shall fail to resign after written request therefor by the Company or by any such Holder; or

(c) the Trustee shall become incapable of acting or shall be adjudged bankrupt or insolvent or a receiver of the Trustee or of its property shall be appointed or any public officer shall take charge or control of the Trustee or of its property or affairs for the purpose of rehabilitation, conservation or liquidation,

then, in any such case, (1) the Company by a Board Resolution may remove the Trustee with respect to all Securities of which such Trustee acts as trustee, or (2) subject to Section 5.14, Holders of 10% in aggregate principal amount of Securities of any series who have been bona fide Holders of such Securities for at least six months may, on behalf of themselves and all others similarly situated, petition any court of competent jurisdiction for the removal of the Trustee with respect to all Securities of which such Trustee acts as trustee and the appointment of a successor Trustee or Trustees.

If the Trustee shall resign, be removed or become incapable of acting, or if a vacancy shall occur in the office of Trustee for any cause, with respect to the Securities of one or more series, the Company shall promptly appoint a successor Trustee or Trustees with respect to the Securities of that or those series (it being understood that any such successor Trustee may be appointed with respect to the Securities of one or more or all of such series and that at any time there shall be only one Trustee with respect to the Securities of any particular series) and shall comply with the applicable requirements of Section 6.11. If, within one year after such resignation, removal or incapability, or the occurrence of such vacancy, a successor Trustee with respect to the Securities of any series shall be appointed by Act of the Holders of a majority in aggregate principal amount of the Outstanding Securities of such series delivered to the Company and the retiring Trustee, the successor Trustee so appointed shall, forthwith upon its acceptance of such appointment in accordance with the applicable requirements of Section 6.11, become the successor Trustee with respect to the Securities of such series and to that extent supersede the successor Trustee appointed by the Company. If no successor Trustee with respect to the Securities of any series shall have been so appointed by the Company or the Holders and accepted appointment in the manner required by Section 6.11, Holders of 10% in aggregate principal amount of Securities of any series who have been bona fide Holders of such Securities of such series for at least six months or the Trustee may, on behalf of themselves and all others similarly situated, petition any court of competent jurisdiction for the appointment of a successor Trustee with respect to the Securities of such series.

The Company shall give notice of each resignation and each removal of the Trustee with respect to the Securities of any series and each appointment of a successor Trustee with respect to the Securities of any series to all Holders of Securities of such series in the manner provided in Section 1.06. Each notice shall include the name of the successor Trustee with respect to the Securities of such series and the address of its Corporate Trust Office.

Section 6.11 Acceptance of Appointment by Successor.

In case of the appointment hereunder of a successor Trustee with respect to all Securities, every such successor Trustee so appointed shall execute, acknowledge and deliver to the Company and to the retiring Trustee an instrument accepting such appointment, and thereupon the resignation or removal of the retiring Trustee shall become effective and such successor Trustee, without any further act, deed or conveyance, shall become vested with all the rights, powers, trusts and duties of the retiring Trustee; but, on the request of the Company or the successor Trustee, such retiring Trustee shall, upon payment of its charges and reimbursement of its expenses (including reasonable fees and expenses of counsel and agents), if any, to which such retiring Trustee is otherwise legally entitled, execute and deliver an instrument transferring to such successor Trustee all the rights, powers and trusts of the retiring Trustee and shall duly assign, transfer and deliver to such successor Trustee all property and money held by such retiring Trustee hereunder.

In case of the appointment hereunder of a successor Trustee with respect to the Securities of one or more (but not all) series, the Company, the retiring Trustee and each successor Trustee with respect to the Securities of one or more series shall execute and deliver an indenture supplemental hereto wherein each successor Trustee shall accept such appointment and which (a) shall contain such provisions as shall be necessary or desirable to transfer and confirm to, and to vest in, each successor Trustee all the rights, powers, trusts and duties of the retiring Trustee with respect to the Securities of that or those series to which the appointment of such successor Trustee relates, (b) if the retiring Trustee is not retiring with respect to all Securities, shall contain such provisions as shall be deemed necessary or desirable to confirm that all the rights, powers, trusts and duties of the retiring Trustee with respect to the Securities of that or those series as to which the retiring Trustee is not retiring shall continue to be vested in the retiring Trustee, and (c) shall add to or change any of the provisions of this Indenture as shall be necessary to provide for or facilitate the administration of the trusts hereunder by more than one Trustee, it being understood that nothing herein or in such supplemental indenture shall constitute such Trustees co-trustees of the same trust and that each such Trustee shall be trustee of a trust or trusts hereunder separate and apart from any trust or trusts hereunder administered by any other such Trustee; and upon the execution and delivery of such supplemental indenture the resignation or removal of the retiring Trustee shall become effective to the extent provided therein and each such successor Trustee, without any further act, deed or conveyance, shall become vested with all the rights, powers, trusts and duties of the retiring Trustee with respect to the Securities of that or those series to which the appointment

of such successor Trustee relates; but, on request of the Company or any successor Trustee, such retiring Trustee shall duly assign, transfer and deliver to such successor Trustee all property and money held by such retiring Trustee hereunder with respect to the Securities of that or those series to which the appointment of such successor Trustee relates.

Upon request of any such successor Trustee, the Company shall execute any and all instruments for more fully and certainly vesting in and confirming to such successor Trustee all such rights, powers and trusts referred to in the first or second preceding paragraph, as the case may be.

No successor Trustee shall accept its appointment unless at the time of such acceptance such successor Trustee shall be qualified and eligible under this Article.

Section 6.12 Merger, Conversion, Consolidation or Succession to Business.

Any corporation into which the Trustee may be merged or converted or with which it may be consolidated, or any corporation resulting from any merger, conversion or consolidation to which the Trustee shall be a party, or any corporation succeeding to all or substantially all the corporate trust business of the Trustee, shall be the successor of the Trustee hereunder, provided such corporation shall be otherwise qualified and eligible under this Article, without the execution or filing of any paper or any further act on the part of any of the parties hereto. In case any Securities shall have been authenticated, but not delivered, by the Trustee then in office, any successor by merger, conversion or consolidation to such authenticating Trustee may adopt such authentication and deliver the Securities so authenticated with the same effect as if such successor Trustee had itself authenticated such Securities; and in case at that time any Securities shall not have been authenticated, any successor to the Trustee may authenticate such Securities either in the name of any predecessor hereunder or in the name of the successor to the Trustee; and in all such cases such certificates shall have the full force which it is anywhere in the Securities or in this Indenture provided that the certificate of the Trustee shall have.

Section 6.13 Preferential Collection of Claims Against Company.

If and when the Trustee shall be or become a creditor of the Company (or any other obligor upon the Securities), the Trustee shall be subject to the provisions of the Trust Indenture Act regarding the collection of claims against the Company (or any such other obligor).

Section 6.14 Appointment of Authenticating Agent.

The Trustee may appoint an Authenticating Agent or Agents with respect to one or more series of Securities which shall be authorized to act on behalf of and subject to the direction of the Trustee to authenticate and deliver Securities of such series issued upon original issue and upon exchange, registration of transfer or partial redemption thereof or pursuant to Section 3.06, and Securities so authenticated shall be entitled to the benefits of this Indenture and shall be valid and obligatory for all purposes as if authenticated by the Trustee hereunder. Wherever reference is made in this Indenture to the authentication and delivery of Securities by the Trustee or the Trustee's certificate of authentication, such reference shall be deemed to include authentication and delivery on behalf of the Trustee by an Authenticating Agent and a certificate of authentication executed on behalf of the Trustee by an Authenticating Agent. Each Authenticating Agent shall be acceptable to the Company and shall at all times be a corporation organized and doing business under the laws of the United States of America, any State thereof or the District of Columbia, authorized under such laws to act as Authenticating Agent, having a combined capital and surplus of not less than \$50,000,000 and subject to supervision or examination by Federal or State authority. If such Authenticating Agent publishes reports of condition at least annually, pursuant to law or to the requirements of said supervising or examining authority, then for the purposes of this Section, the combined capital and surplus of such Authenticating Agent shall be deemed to be its combined capital and surplus as set forth in its most recent report of condition so published. If at any time an Authenticating Agent shall cease to be eligible in accordance with the provisions of this Section, such Authenticating Agent shall resign immediately in the manner and with the effect specified in this Section.

Any corporation into which an Authenticating Agent may be merged or converted or with which it may be consolidated, or any corporation resulting from any merger, conversion or consolidation to which such Authenticating Agent shall be a party, or any corporation succeeding to all or substantially all the corporate agency or corporate trust business of an Authenticating Agent, shall be the successor of the Authenticating Agent hereunder, provided such corporation shall be otherwise eligible under this Section, without the execution or filing of any paper or any further act on the part of the Trustee or the Authenticating Agent.

An Authenticating Agent may resign at any time by giving written notice thereof to the Trustee and to the Company. The Trustee may at any time terminate the agency of an Authenticating Agent by giving written notice thereof to such Authenticating Agent and to the Company. Upon receiving such a notice of resignation or upon such a termination, or in case at any time such Authenticating Agent shall cease to be eligible in accordance with the provisions of this Section, the Trustee may appoint a successor Authenticating Agent which shall be acceptable to the Company and shall give notice of such appointment in the manner provided in Section 1.06 to all Holders of Securities of the series with respect to which such Authenticating Agent will serve. Any successor Authenticating Agent upon acceptance of its appointment hereunder shall become vested with all the rights, powers and duties of its predecessor hereunder, with like effect as if originally named as an Authenticating Agent. No successor Authenticating Agent shall be appointed unless eligible under the provisions of this Section.

Except with respect to an Authenticating Agent appointed at the request of the Company, the Trustee agrees to pay to each Authenticating Agent from time to time reasonable compensation for its services under this Section.

If an appointment with respect to one or more series is made pursuant to this Section, the Securities of such series may have endorsed thereon, in addition to the Trustee's certificate of authentication, an alternative certificate of authentication in the following form:

This is one of the Securities of the series designated therein referred to in the within-mentioned Indenture.

[_____], as Trustee

By: _____, as
Authenticating Agent

By: _____
Authorized Signatory

ARTICLE VII. HOLDERS' LISTS AND REPORTS BY TRUSTEE AND COMPANY

Section 7.01 Company to Furnish Trustee Names and Addresses of Holders.

The Company will furnish or cause to be furnished to the Trustee:

(a) semi-annually, not more than 15 days after each Regular Record Date, a list for each series of Securities, in such form as the Trustee may reasonably require, of the names and addresses of the Holders of Securities of such series as of such Regular Record Date; and

(b) at such other times as the Trustee may request in writing, within 30 days after the receipt by the Company of any such request, a list of similar form and content as of a date not more than 15 days prior to the time such list is furnished;

provided, however, that if and so long as the Trustee shall be the Security Registrar for the Securities of a series, no such list need be furnished with respect to such series of Securities.

Section 7.02 Preservation of Information: Communications to Holders

Subject to compliance with its obligations pursuant to Section 312 of the Trust Indenture Act, the Trustee (i) shall preserve, in as current a form as is reasonably practicable, the names and addresses of Holders contained in the most recent list furnished to the Trustee as provided in Section 7.01 and the names and addresses of Holders received by the Trustee in its capacity as Security Registrar and (ii) may destroy any list furnished to it as provided in Section 7.01 upon receipt of a new list so furnished.

The rights of Holders to communicate with other Holders with respect to their rights under this Indenture or the Securities, and the corresponding rights and privileges of the Trustee shall be as provided by the Trust Indenture Act.

Every Holder of Securities, by receiving and holding the same, agrees with the Company and the Trustee that none of the Company, the Trustee nor any agent of any of them shall be held accountable by reason of any disclosure of information as to names and addresses of Holders made pursuant to the Trust Indenture Act.

Section 7.03 Reports by Trustee

The Trustee shall transmit to Holders such reports concerning the Trustee and its actions under this Indenture as may be required pursuant to the Trust Indenture Act at the times and in the manner provided pursuant thereto. As promptly as practicable after each May 15 beginning with the May 15 following the date of this Indenture, and in any event prior to July 15 of each year, the Trustee shall deliver to each Holder a brief report dated as of May 15 that complies with Trust Indenture Act Section 313(a). The Trustee also shall comply with Trust Indenture Act Section 313(b). Prior to delivery to the Holders, the Trustee shall deliver to the Company a copy of any report it delivers to Holders pursuant to this Section.

A copy of each such report shall, at the time of such transmission to Holders, be filed by the Trustee with each stock exchange and automated quotation system, if any, upon which any Securities are listed, with the Commission and with the Company. The Company will notify the Trustee when any Securities are listed on any stock exchange or automated quotation system.

Section 7.04 Reports by Company

Except as otherwise established in or pursuant to a Board Resolution or an Officer's Certificate or in another manner specified as contemplated by Section 3.01 for such Securities, the Company shall file with the Trustee, within 15 days after the Company files the same with the Commission, copies of the annual reports and the information, documents and other reports, if any, that it is required to file with the Commission pursuant to Section 13 or Section 15(d) of the Exchange Act or pursuant to § 314 of the Trust Indenture Act.

All required information, documents and reports referred to in this Section 7.04 shall be deemed filed with the Trustee at the time such information, documents and other reports are publicly filed with the Commission; provided, however, that the Trustee shall have no obligation whatsoever to determine whether or not such information, documents or reports have been so filed. Delivery of such reports, information and documents to the Trustee is for informational purposes only and the Trustee's receipt of such shall not constitute constructive notice of any information contained therein or determinable from information contained therein, including the Company's compliance with any of its covenants hereunder (as to which the Trustee is entitled to rely exclusively on an Officer's Certificate).

ARTICLE VIII. CONSOLIDATION, MERGER, CONVEYANCE, TRANSFER OR LEASE

Section 8.01 Company May Consolidate, Etc., Only on Certain Terms

The Company shall not consolidate with or merge into any other Person or convey, transfer or lease (as lessor) its properties and assets as, or substantially as, an entirety to any Person, unless:

(a) (i) in the case of a merger, (1) the Company is the surviving Person, or (2) the Person formed by such consolidation or into which the Company is merged or the Person which acquires by conveyance or transfer, or which leases, the properties and assets of the Company as, or substantially as, an entirety shall be a corporation or

partnership, shall be organized and validly existing under the laws of the United States of America, any State thereof or the District of Columbia and shall expressly assume, by an indenture supplemental hereto, executed and delivered to the Trustee, in form reasonably satisfactory to the Trustee, the due and punctual payment of the principal of and any premium and interest on all the Securities and the performance or observance of every covenant of this Indenture on the part of the Company to be performed or observed;

(b) immediately after giving effect to such transaction, no Event of Default, and no event which, after notice or lapse of time or both, would become an Event of Default, shall exist; and

(c) the Company has delivered to the Trustee an Officer's Certificate and an Opinion of Counsel, each stating that such consolidation, merger, conveyance, transfer or lease and, if a supplemental indenture is required in connection with such transaction, such supplemental indenture comply with this Article and that all conditions precedent herein provided for relating to such transaction have been complied with.

Section 8.02 Successor Substituted.

Upon any consolidation of the Company with, or merger of the Company into, any other Person or any conveyance, transfer or lease (as lessor) of the properties and assets of the Company as, or substantially as, an entirety in accordance with Section 8.01, the successor Person formed by such consolidation or into which the Company is merged or to which such conveyance, transfer or lease is made shall succeed to, and be substituted for, and may exercise every right and power of, the Company under this Indenture with the same effect as if such successor Person had been named as the Company herein, and thereafter, except in the case of a lease (where the Company is the lessor), the predecessor Person shall be relieved of all obligations and covenants under this Indenture and the Securities.

ARTICLE IX. SUPPLEMENTAL INDENTURES

Section 9.01 Supplemental Indentures Without Consent of Holders.

Without the consent of any Holders, the Company and the Trustee, at any time and from time to time, may enter into one or more indentures supplemental hereto, in form satisfactory to the Trustee, for any of the following purposes:

(a) to evidence the succession of another Person to the Company under this Indenture and the Securities and the assumption by such successor of the obligations of the Company hereunder;

(b) to add covenants of the Company for the benefit of the Holders of all or any series of Securities (and if such covenants are to be for the benefit of less than all series of Securities, stating that such covenants are expressly being included solely for the benefit of such series) or to surrender any right or power herein conferred upon the Company with regard to all or any series of Securities (and if any such surrender is to be made with regard to less than all series of Securities, stating that such surrender is expressly being made solely with regard to such series);

(c) to add any additional Events of Default for the benefit of the Holders of all or any series of Securities (and if such additional Events of Default are to be for the benefit of less than all series of Securities, stating that such additional Events of Default are expressly being included solely for the benefit of such series);

(d) to add to or change any of the provisions of this Indenture to such extent as shall be necessary to permit or facilitate the issuance of Securities in bearer form, registrable or not registrable as to principal, and with or without interest coupons, or to permit or facilitate the issuance of Securities in uncertificated form;

(e) to add to, change or eliminate any of the provisions of this Indenture in respect of all or any series of Securities (and if such addition, change or elimination is to apply to less than all series of Securities, stating that it is expressly being made to apply solely with respect to such series); provided that any such addition, change or elimination (1) shall neither (i) apply to any Security of any series created prior to the execution of such supplemental indenture and entitled to the benefit of such provision nor (ii) modify the rights of the Holder of any such Security with respect to such provision or (2) shall become effective only when there is no such Security Outstanding;

(f) to secure the Securities or any guarantee with respect to any Securities;

(g) to establish the form or terms of Securities of any series hereunder;

(h) to evidence and provide for the acceptance of appointment hereunder by a successor Trustee with respect to the Securities of one or more series and to add to or change any of the provisions of this Indenture as shall be necessary to provide for or facilitate the administration of the trusts hereunder by more than one Trustee, pursuant to the requirements of Section 6.11;

(i) to cure any ambiguity or to correct or supplement any provision herein which may be defective or inconsistent with any other provision herein;

(j) to make any other provisions with respect to matters or questions arising under this Indenture, provided that such action pursuant to this Clause (j) shall not adversely affect the interests of the Holders of any Securities of any Outstanding series in any material respect;

(k) to add one or more guarantors with respect to the Securities as parties to this Indenture or to release guarantors in accordance with the provisions of any supplemental indenture;

(l) to qualify this Indenture under the Trust Indenture Act;

(m) to supplement any provisions of this Indenture necessary to permit or facilitate the defeasance and discharge of any series of Securities; provided that such action does not adversely affect the interests of the Holders of Securities of such series or any other series;

(n) to comply with the rules or regulations of any securities exchange or automated quotation system on which any of the Securities may be listed or traded;

(o) to comply with the rules of any applicable Depository;

(p) subject to any limitations established pursuant to Section 3.01, to provide for the issuance of additional Securities of any series; or

(q) to conform any provision of this Indenture, any supplemental indenture, one or more series of Securities or any related guarantees or security documents, if any, to the description of such Securities contained in the Company's prospectus, prospectus supplement, offering memorandum or similar document with respect to the offering of the Securities of such series.

Section 9.02 Supplemental Indentures With Consent of Holders.

With the consent of the Holders of not less than a majority in aggregate principal amount of the Outstanding Securities of each series affected by such supplemental indenture (including consents obtained in connection with a tender offer or exchange for Securities), by Act of said Holders delivered to the Company and the Trustee, the Company, when authorized by a Board Resolution, and the Trustee may enter into an indenture or indentures supplemental hereto for the purpose of adding any provisions to, or changing in any manner or eliminating any of the provisions of, this Indenture, or modifying in any manner the rights of the Holders of Securities of such series under this Indenture; provided, however, that no such supplemental indenture shall, without the consent of the Holder of each Outstanding Security of such series affected thereby:

(a) change the Stated Maturity of the principal of, or any installment of principal of or interest, if any, on, any Security, or reduce the principal amount thereof or the rate of interest thereon or any premium payable upon

the redemption thereof, or reduce the amount of the principal of an Original Issue Discount Security or any other Security which would be due and payable upon a declaration of acceleration of the Maturity thereof pursuant to Section 5.02, or change the Company's obligation to maintain an office or agency for payment of Securities and the other matters specified herein, or the coin or currency in which any Security is payable, or impair the right of any Holder to institute suit for the enforcement of any such payment on or after the Stated Maturity thereof (or, in the case of redemption, on or after the Redemption Date), or alter the method of computation of interest;

(b) reduce the percentage in aggregate principal amount of the Outstanding Securities of any series, the consent of whose Holders is required for any such supplemental indenture, or the consent of whose Holders is required for any waiver (of compliance with certain provisions of this Indenture or certain defaults hereunder and their consequences) provided for in this Indenture;

(c) modify any of the provisions of this Section, Section 5.13 or Section 10.06 except to increase any such percentage or to provide that certain other provisions of this Indenture cannot be modified or waived without the consent of the Holder of each Outstanding Security affected thereby; provided, however, that this Clause shall not be deemed to require the consent of any Holder with respect to changes in the references to "the Trustee" and concomitant changes in this Section and Section 10.06, or the deletion of this proviso, in accordance with the requirements of Sections 6.11 and 9.01(h); or

(d) if the Securities of any series are convertible into or for any other securities or property of the Company, make any change that adversely affects in any material respect the right to convert any Security of such series (except as permitted by Section 9.01) or decrease the conversion rate or increase the conversion price of any such Security of such series, unless such decrease or increase is permitted by the terms of such Security.

A supplemental indenture that changes or eliminates any covenant or other provision of this Indenture that has expressly been included solely for the benefit of one or more particular series of Securities, or which modifies the rights of the Holders of Securities of such series with respect to such covenant or other provision, shall be deemed not to affect the rights under this Indenture of the Holders of Securities of any other series.

It shall not be necessary for any Act of Holders under this Section to approve the particular form of any proposed supplemental indenture, but it shall be sufficient if such Act shall approve the substance thereof.

Section 9.03 Execution of Supplemental Indentures.

In executing, or accepting the additional trusts created by, any supplemental indenture permitted by this Article or the modifications thereby of the trusts created by this Indenture, the Trustee shall be entitled to receive, and (subject to Section 6.01) shall be fully protected in relying upon, an Officer's Certificate and Opinion of Counsel stating that the execution of such supplemental indenture is authorized or permitted by this Indenture. The Trustee may, but shall not be obligated to, enter into any such supplemental indenture which affects the Trustee's own rights, duties or immunities under this Indenture or otherwise.

Section 9.04 Effect of Supplemental Indentures.

Upon the execution of any supplemental indenture under this Article, this Indenture shall be modified in accordance therewith, and such supplemental indenture shall form a part of this Indenture, for all purposes; and every Holder of Securities theretofore or thereafter authenticated and delivered hereunder shall be bound thereby.

Section 9.05 Conformity with Trust Indenture Act.

Every supplemental indenture executed pursuant to this Article shall conform to the requirements of the Trust Indenture Act.

Section 9.06 Reference in Securities to Supplemental Indentures.

Securities of any series authenticated and delivered after the execution of any supplemental indenture pursuant to this Article may, and shall if required by the Trustee, bear a notation in form approved by the Trustee as to any matter provided for in such supplemental indenture. If the Company shall so determine, new Securities of any series so modified as to conform, in the opinion of the Trustee and the Company, to any such supplemental indenture may be prepared and executed by the Company and authenticated and delivered by the Trustee in exchange for Outstanding Securities of such series. Failure to make a notation or issue a new Security shall not affect the validity and effect of any amendment, supplement or waiver.

ARTICLE X. COVENANTS

Section 10.01 Payment of Principal, Premium and Interest.

The Company covenants and agrees for the benefit of each series of Securities that it will duly and punctually pay the principal of and premium, if any, and interest on the Securities of that series in accordance with the terms of the Securities and this Indenture. Principal, premium, if any, and interest will be considered paid on the date due if the Trustee or Paying Agent, if other than the Company or a Subsidiary thereof, holds as of Noon, New York City time, on the due date, money deposited by the Company in immediately available funds and designated for and sufficient to pay all principal, premium, if any, and interest on the Notes then due.

Notwithstanding anything to the contrary contained in this Indenture, the Company or the Paying Agent may, to the extent it is required to do so by law, deduct or withhold income or other similar taxes imposed by the United States of America or other domestic or foreign taxing authorities from principal or interest payments hereunder.

Section 10.02 Maintenance of Office or Agency.

The Company will maintain in each Place of Payment for any series of Securities an office or agency where Securities of that series may be presented or surrendered for payment, where Securities of that series may be surrendered for registration of transfer or exchange, where Securities may be surrendered for conversion, and where notices and demands to or upon the Company in respect of the Securities of that series and this Indenture may be served. The Company will give prompt written notice to the Trustee of the location, and any change in the location, of such office or agency. If at any time the Company shall fail to maintain any such required office or agency or shall fail to furnish the Trustee with the address thereof, such presentations, surrenders, notices and demands may be made or served at the Corporate Trust Office of the Trustee, and the Company hereby appoints the Trustee as its agent to receive all such presentations, surrenders, notices and demands.

The Company may also from time to time designate one or more other offices or agencies where the Securities of one or more series may be presented or surrendered for any or all such purposes and may from time to time rescind such designations; provided, however, that no such designation or rescission shall in any manner relieve the Company of its obligation to maintain an office or agency in each Place of Payment for Securities of any series for such purposes. The Company will give prompt written notice to the Trustee of any such designation or rescission and of any change in the location of any such other office or agency.

Except as otherwise specified with respect to a series of Securities as contemplated by Section 3.01, the Company hereby initially designates as the Place of Payment for each series of Securities The City of New York, and initially appoints the Trustee as Paying Agent at its Corporate Trust Office as the Company's office or agency for each such purpose in such city; provided that with respect to a Global Security, and except as may otherwise be specified for such Global Security as contemplated by Section 3.01, any payment, presentation, surrender or delivery effected pursuant to the Applicable Procedures of the Depository for such Global Security shall be deemed to have been effected at the Place of Payment for such Global Security in accordance with the provisions of this Indenture.

Section 10.03 Money for Securities Payments to Be Held in Trust.

If the Company shall at any time act as its own Paying Agent with respect to any series of Securities, it will, on or before each due date of the principal of or any premium or interest on any of the Securities of that series, segregate and hold in trust for the benefit of the Persons entitled thereto a sum sufficient to pay the principal and any premium and interest so becoming due until such sums shall be paid to such Persons or otherwise disposed of as herein provided and will promptly notify the Trustee of its action or failure so to act.

Whenever the Company shall have one or more Paying Agents for any series of Securities, it will, on or prior to Noon, New York City time, on each due date of the principal of or any premium or interest on any Securities of that series, deposit (or, if the Company has deposited any trust funds with a trustee pursuant to Section 13.04(a), cause such trustee to deposit) with a Paying Agent a sum sufficient to pay such amount, such sum to be held as provided by the Trust Indenture Act, and (unless such Paying Agent is the Trustee) the Company will promptly notify the Trustee of its action or failure so to act.

The Company will cause each Paying Agent for any series of Securities other than the Trustee to execute and deliver to the Trustee an instrument in which such Paying Agent shall agree with the Trustee, subject to the provisions of this Section, that such Paying Agent will (1) hold all sums held by it for the payment of the principal of (and premium, if any) or interest, if any, on Securities of that series in trust for the benefit of the Persons entitled thereto until such sums shall be paid to such Persons or otherwise disposed of as herein provided; (2) give the Trustee notice of any default by the Company (or any other obligor upon the Securities of that series) in the making of any payment of principal (and premium, if any) or interest, if any, on the Securities of that series; and (3) during the continuance of any such default, upon the written request of the Trustee, forthwith pay to the Trustee all sums held in trust by such Paying Agent for payment in respect of the Securities of that series.

The Company may at any time, for the purpose of obtaining the satisfaction and discharge of this Indenture or for any other purpose, pay, or by Company Order direct any Paying Agent to pay, to the Trustee all sums held in trust by the Company or such Paying Agent, such sums to be held by the Trustee upon the same trusts as those upon which such sums were held by the Company or such Paying Agent; and, upon such payment by any Paying Agent to the Trustee, such Paying Agent shall be released from any further liability with respect to such money.

Subject to any applicable abandoned property law, any money deposited with the Trustee or any Paying Agent, or then held by the Company, in trust for the payment of the principal of or any premium or interest on any Security of any series and remaining unclaimed for two years after such principal, premium or interest has become due and payable shall be paid to the Company on Company Request, or (if then held by the Company) shall be discharged from such trust; and the Holder of such Security shall thereafter, as an unsecured general creditor, look only to the Company for payment thereof, and all liability of the Trustee or such Paying Agent with respect to such trust money, and all liability of the Company as trustee thereof, shall thereupon cease.

Section 10.04 Statement by Officer as to Default.

The Company will deliver to the Trustee, within 120 days after the end of each of its fiscal years ending after the date hereof, an Officer's Certificate, stating whether or not to the best knowledge of the signer thereof the Company is in default in the performance and observance of any of the terms, provisions and conditions of this Indenture (without regard to any period of grace or requirement of notice provided hereunder) and, if the Company shall be in default, specifying all such defaults and the nature and status thereof of which the signer thereof may have knowledge.

Section 10.05 Existence.

Subject to Article VIII, the Company will do or cause to be done all things necessary to preserve and keep in full force and effect its corporate (or equivalent) existence.

Section 10.06 Waiver of Certain Covenants.

Except as otherwise specified as contemplated by Section 3.01 for Securities of such series, the Company may, with respect to the Securities of any series, omit in any particular instance to comply with any term, provision or condition set forth in any covenant pursuant to Sections 3.01(u), 9.01(b) or 9.01(g), Article VIII or Sections 10.04 or 10.05 for the benefit of the Holders of such series if before the time for such compliance the Holders of at least a

majority in aggregate principal amount of the Outstanding Securities of such series shall, by Act of such Holders, either waive such compliance in such instance or generally waive compliance with such term, provision or condition, but no such waiver shall extend to or affect such term, provision or condition except to the extent so expressly waived, and, until such waiver shall become effective, the obligations of the Company and the duties of the Trustee in respect of any such term, provision or condition shall remain in full force and effect.

ARTICLE XI. REDEMPTION OF SECURITIES

Section 11.01 Applicability of Article.

Securities of any series that are redeemable before their Stated Maturity shall be redeemable in accordance with their terms and (except as otherwise specified as contemplated by Section 3.01 for such Securities) in accordance with this Article.

Section 11.02 Election to Redeem; Notice to Trustee.

The election of the Company to redeem any Securities shall be established in or pursuant to a Board Resolution or an Officer's Certificate or in another manner specified as contemplated by Section 3.01 for such Securities.

Except as otherwise established in or pursuant to a Board Resolution or an Officer's Certificate or in another manner specified as contemplated by Section 3.01 for such Securities, in case of any redemption at the election of the Company of the Securities of any series (including any such redemption affecting only a single Security), the Company shall, not less than 10 days prior to the Redemption Date fixed by the Company (unless a shorter notice shall be satisfactory to the Trustee), notify the Trustee of such Redemption Date, of the principal amount of Securities of such series to be redeemed and, if applicable, of the tenor of the Securities to be redeemed. In the case of any redemption of Securities (a) prior to the expiration of any restriction on such redemption provided in the terms of such Securities or elsewhere in this Indenture, or (b) pursuant to an election of the Company which is subject to a condition specified in the terms of such Securities or elsewhere in this Indenture, the Company shall furnish the Trustee with an Officer's Certificate evidencing compliance with such restriction or condition.

Section 11.03 Selection by Trustee of Securities to Be Redeemed.

Except as otherwise established in or pursuant to a Board Resolution or an Officer's Certificate or in another manner specified as contemplated by Section 3.01 for such Securities, if less than all the Securities of any series are to be redeemed (unless all the Securities of such series and of a specified tenor are to be redeemed or unless such redemption affects only a single Security), the particular Securities to be redeemed shall be selected not more than 45 days prior to the Redemption Date by the Trustee, from the Outstanding Securities of such series not previously called for redemption, by such method as the Trustee shall deem fair and appropriate and which complies with any securities exchange or other Applicable Procedures; provided that the unredeemed portion of the principal amount of any Security shall be in an authorized denomination (which shall not be less than the minimum authorized denomination) for such Security. If less than all the Securities of such series and of a specified tenor are to be redeemed (unless such redemption affects only a single Security), the particular Securities to be redeemed shall be selected not more than 45 days prior to the Redemption Date by the Trustee, from the Outstanding Securities of such series and specified tenor not previously called for redemption in accordance with the preceding sentence.

If any Security selected for partial redemption is converted in part before termination of the conversion right with respect to the portion of the Security so selected, the converted portion of such Security shall be deemed (so far as may be) to be the portion selected for redemption. Securities which have been converted during a selection of securities to be redeemed shall be treated by the Trustee as Outstanding for the purpose of such selection.

The Trustee shall promptly notify the Company and each Security Registrar in writing of the Securities selected for redemption as aforesaid and, in case of any Securities selected for partial redemption as aforesaid, the principal amount thereof to be redeemed.

The provisions of the three preceding paragraphs shall not apply with respect to any redemption affecting only a single Security, whether such Security is to be redeemed in whole or in part. In the case of any such redemption in part, the unredeemed portion of the principal amount of the Security shall be in an authorized denomination (which shall not be less than the minimum authorized denomination) for such Security.

For all purposes of this Indenture, unless the context otherwise requires, all provisions relating to the redemption of Securities shall relate, in the case of any Securities redeemed or to be redeemed only in part, to the portion of the principal amount of such Securities which has been or is to be redeemed. If the Company shall so direct, Securities registered in the name of the Company, any Affiliate or any Subsidiary thereof shall not be included in the Securities selected for redemption.

Section 11.04 Notice of Redemption.

Except as otherwise established in or pursuant to a Board Resolution or an Officer's Certificate or in another manner specified as contemplated by Section 3.01 for such Securities, notice of redemption shall be given by first-class mail, postage prepaid, mailed or otherwise in accordance with the Applicable Procedures not less than 10 nor more than 60 days prior to the Redemption Date (or within such period as otherwise specified as contemplated by Section 3.01 for the relevant Securities), to each Holder of Securities to be redeemed, at such Holder's address appearing in the Security Register.

Except as otherwise established in or pursuant to a Board Resolution or an Officer's Certificate or in another manner specified as contemplated by Section 3.01 for such Securities, all notices of redemption shall identify the Securities to be redeemed (including CUSIP numbers, if any) and shall state:

- (a) the Redemption Date;
- (b) the Redemption Price (or the method of calculating such price);
- (c) if less than all the Outstanding Securities of any series consisting of more than a single Security are to be redeemed, the identification (and, in the case of partial redemption of any such Securities, the principal amounts) of the particular Securities to be redeemed and, if less than all the Outstanding Securities of any series consisting of a single Security are to be redeemed, the principal amount of the particular Security to be redeemed;
- (d) that on the Redemption Date, the Redemption Price will become due and payable upon each such Security to be redeemed and, if applicable, that interest thereon will cease to accrue on and after said date;
- (e) the place or places where each such Security is to be surrendered for payment of the Redemption Price;
- (f) that the redemption is for a sinking fund, if such is the case;
- (g) for any Securities that by their terms may be converted, the terms of conversion, the date on which the right to convert the Security to be redeemed will terminate and the place or places where such Securities may be surrendered for conversion; and
- (h) any conditions precedent described in the second paragraph below.

Notice of redemption of Securities to be redeemed at the election of the Company shall be given by the Company or, at the Company's request (which may be rescinded or revoked at any time prior to the time at which the Trustee shall have given such notice to the Holders), by the Trustee in the name and at the expense of the Company. The notice, if sent in the manner herein provided, shall be conclusively presumed to have been given, whether or not the Holder receives such notice. In any case, failure to give such notice by mail or otherwise in accordance with the Applicable Procedures or any defect in the notice to the Holder of any Security designated for redemption as a whole or in part shall not affect the validity of the proceedings for the redemption of any other Securities.

Any redemption or notice may, at the Company's discretion, be subject to one or more conditions precedent and, at the Company's discretion, the Redemption Date may be delayed until such time as any or all such conditions precedent included at the Company's discretion shall be satisfied (or waived by the Company) or the Redemption Date may not occur and such notice may be rescinded if all such conditions precedent included at the Company's discretion shall not have been satisfied (or waived by the Company). In addition, such notice may provide that payment of the Redemption Price and performance of the Company's obligations with respect to such redemption may be performed by another person.

Section 11.05 Deposit of Redemption Price.

Except as otherwise established in or pursuant to a Board Resolution or an Officer's Certificate or in another manner specified as contemplated by Section 3.01 for such Securities, on or prior to Noon, New York City time, on any Redemption Date, the Company shall deposit with the Trustee or with a Paying Agent (or, if the Company is acting as its own Paying Agent, segregate and hold in trust as provided in Section 10.03) an amount of money sufficient to pay the Redemption Price of, and (except if the Redemption Date shall be an Interest Payment Date or the Securities of the series provide otherwise) accrued interest on, all the Securities that are to be redeemed on that date, other than Securities or portions of Securities called for redemption that are owned by the Company or a Subsidiary and have been delivered by the Company or such Subsidiary to the Trustee for cancellation. All money, if any, earned on funds held by the Paying Agent shall be remitted to the Company. In addition, the Paying Agent shall promptly return to the Company any money deposited with the Paying Agent by the Company in excess of the amounts necessary to pay the Redemption Price of, and accrued interest, if any, on, all Securities to be redeemed.

If any Security called for redemption is converted into shares of common stock or other securities of the Company in compliance with the terms of such Security, any money deposited with the Trustee or with any Paying Agent or so segregated and held in trust for the redemption of such Security shall (subject to any right of the Holder of such Security or any Predecessor Security to receive interest as provided in the last paragraph of Section 3.07 or in the terms of such Security) be paid to the Company upon Company Request or, if then held by the Company, shall be discharged from such trust.

Section 11.06 Securities Payable on Redemption Date.

Notice of redemption having been given as aforesaid, the Securities so to be redeemed shall, on the Redemption Date, become due and payable at the Redemption Price therein specified, and from and after such date (unless the Company shall default in the payment of the Redemption Price and accrued interest) such Securities shall cease to bear interest. Upon surrender of any such Security for redemption in accordance with said notice, such Security shall be paid by the Company at the Redemption Price, together, if applicable, with accrued interest to the Redemption Date; provided, however, that, unless otherwise specified as contemplated by Section 3.01, installments of interest whose Stated Maturity is on or prior to the Redemption Date will be payable to the Holders of such Securities, or one or more Predecessor Securities, registered as such at the close of business on the relevant Record Dates according to their terms and the provisions of Section 3.07; provided further that, unless otherwise specified as contemplated by Section 3.01, if the Redemption Date is after a Regular Record Date and on or prior to the Interest Payment Date, the accrued and unpaid interest shall be payable to the Holder of the redeemed Securities registered on the relevant Regular Record Date.

If any Security called for redemption shall not be so paid upon surrender thereof for redemption, the principal and any premium shall, until paid, bear interest from the Redemption Date at the rate prescribed therefor in the Security.

Section 11.07 Securities Redeemed in Part.

Any Security that is to be redeemed only in part shall be surrendered at a Place of Payment therefor (with, if the Company or the Trustee so requires, due endorsement by, or a written instrument of transfer in form satisfactory to the Company and the Trustee duly executed by, the Holder thereof or such Holder's attorney duly authorized in writing), and the Company shall execute, and the Trustee shall authenticate and deliver to the Holder of such Security without service charge, a new Security or Securities of the same series and of like tenor, of any authorized denomination as requested by such Holder, in aggregate principal amount equal to and in exchange for the unredeemed portion of the principal of the Security so surrendered.

ARTICLE XII. SINKING FUNDS

Section 12.01 Applicability of Article.

The provisions of this Article shall be applicable to any sinking fund for the retirement of Securities of any series except as otherwise specified as contemplated by Section 3.01 for such Securities.

The minimum amount of any sinking fund payment provided for by the terms of any series of Securities is herein referred to as a “**mandatory sinking fund payment**”, and any payment in excess of such minimum amount provided for by the terms of such Securities is herein referred to as an “**optional sinking fund payment**”. If provided for by the terms of any series of Securities, the cash amount of any sinking fund payment may be subject to reduction as provided in Section 12.02. Each sinking fund payment shall be applied to the redemption of Securities of the series as provided for by the terms of such Securities.

Section 12.02 Satisfaction of Sinking Fund Payments with Securities.

The Company (a) may deliver Outstanding Securities of a series (other than any previously called for redemption) and (b) may apply as a credit Securities of a series which have been redeemed either at the election of the Company pursuant to the terms of such Securities or through the application of permitted optional sinking fund payments pursuant to the terms of such Securities, in each case in satisfaction of all or any part of any sinking fund payment with respect to any Securities of such series required to be made pursuant to the terms of such Securities as and to the extent provided for by the terms of such Securities; provided that the Securities to be so credited have not been previously so credited. The Securities to be so credited shall be received and credited for such purpose by the Trustee at the Redemption Price, as specified in the Securities so to be redeemed, for redemption through operation of the sinking fund and the amount of such sinking fund payment shall be reduced accordingly.

Section 12.03. Redemption of Securities for Sinking Fund.

Not less than 45 days (or shorter period as shall be satisfactory to the Trustee) prior to each sinking fund payment date for any Securities, the Company will deliver to the Trustee an Officer's Certificate specifying the amount of the next ensuing sinking fund payment for such Securities pursuant to the terms of such Securities, the portion thereof, if any, which is to be satisfied by payment of cash and the portion thereof, if any, which is to be satisfied by delivering and crediting Securities pursuant to Section 12.02 and will also deliver to the Trustee any Securities to be so delivered. Not less than 30 days prior to each such sinking fund payment date, the Trustee shall select the Securities to be redeemed upon such sinking fund payment date in the manner specified in Section 11.03 and cause notice of the redemption thereof to be given in the name of and at the expense of the Company in the manner provided in Section 11.04. Such notice having been duly given, the redemption of such Securities shall be made upon the terms and in the manner stated in Sections 11.06 and 11.07.

ARTICLE XIII. DEFEASANCE AND COVENANT DEFEASANCE

Section 13.01 Company's Option to Effect Defeasance or Covenant Defeasance.

The Company may elect, at its option at any time, to have Section 13.02 or Section 13.03 apply to any Securities or any series of Securities, as the case may be, designated pursuant to Section 3.01 as being defeasible pursuant to such Section 13.02 or 13.03, in accordance with any applicable requirements provided pursuant to Section 3.01 and upon compliance with the conditions set forth below in this Article. Any such election shall be evidenced by a Board Resolution, Officer's Certificate or in another manner specified as contemplated by Section 3.01 for such Securities.

Section 13.02 Defeasance and Discharge.

Upon the Company's exercise of its option (if any) to have this Section apply to any Securities or any series of Securities, as the case may be, the Company shall be deemed to have been discharged from its obligations with respect to such Securities as provided in this Section on and after the date the conditions set forth in Section 13.04 are satisfied (hereinafter called "**Defeasance**"). For this purpose, such Defeasance means that the Company shall be deemed to have paid and discharged the entire indebtedness represented by such Securities and to have satisfied all its other obligations under such Securities and this Indenture insofar as such Securities are concerned (and the Trustee, at the expense of the Company, shall execute proper instruments acknowledging the same), subject to the following which shall survive until otherwise terminated or discharged hereunder: (a) the rights of Holders of such Securities to receive, solely from the trust fund described in Section 13.04 and as more fully set forth in Section 13.05, payments in respect of the principal of and any premium and interest on such Securities when payments are due, (b) the Company's obligations with respect to such Securities under Sections 3.04, 3.05, 3.06, 10.02 and 10.03, (c) the rights, powers, trusts, duties and immunities of the Trustee hereunder and (d) this Article. Subject to compliance with this Article, the Company may exercise its option (if any) to have this Section applied to any Securities notwithstanding the prior exercise of its option (if any) to have Section 13.03 applied to such Securities.

Section 13.03 Covenant Defeasance.

Upon the Company's exercise of its option (if any) to have this Section applied to any Securities or any series of Securities, as the case may be, (a) the Company shall be released from its obligations under Sections 7.04, 8.01, 10.04, 10.05 and any covenants provided pursuant to Section 3.01(u), 9.01(b) or 9.01(g) for the benefit of the Holders of such Securities and (b) the occurrence of any event specified in Section 5.01(d) or 5.01(g) shall be deemed not to be or result in an Event of Default, in each case with respect to such Securities as provided in this Section on and after the date the conditions set forth in Section 13.04 are satisfied (hereinafter called "**Covenant Defeasance**"). For this purpose, such Covenant Defeasance means that, with respect to such Securities, the Company may omit to comply with and shall have no liability in respect of any term, condition or limitation set forth in any such specified Section, whether directly or indirectly by reason of any reference elsewhere herein to any such Section or by reason of any reference in any such Section to any other provision herein or in any other document, but the remainder of this Indenture and such Securities shall be unaffected thereby.

Section 13.04 Conditions to Defeasance or Covenant Defeasance.

The following shall be the conditions to the application of Section 13.02 or 13.03 to any Securities or any series of Securities, as the case may be:

(a) The Company shall irrevocably have deposited or caused to be deposited with the Trustee (or another trustee which satisfies the requirements contemplated by Section 6.09 and agrees to comply with the provisions of this Article applicable to it) as trust funds in trust for the purpose of making the following payments, specifically pledged as security for, and dedicated solely to, the benefits of the Holders of such Securities, (A) money in an amount, or (B) in the case of any series of Securities the payment on which may only be made in legal coin or currency of the United States, U.S. Government Obligations which through the scheduled payment of principal and interest in respect thereof in accordance with their terms will provide, not later than Noon, New York City time, on the due date of any payment, money in an amount, or (C) such other obligations or arrangements as may be specified as contemplated by Section 3.01 with respect to such Securities, or (D) a combination thereof, in each case sufficient, in the opinion of an independent public accountant or financial advisor, in either case expressed in a written certification thereof to be delivered to the Trustee, to pay and discharge, and which shall be applied by the Trustee (or any such other qualifying trustee) to pay and discharge, (1) the principal of and any premium and interest on such Securities on the respective Stated Maturities, in accordance with the terms of this Indenture and such Securities or any Redemption Date established pursuant to Clause (i) below, and (2) any mandatory sinking fund payments on the dates on which such payments are due and payable in accordance with the terms of this Indenture and such Securities. As used herein, "**U.S. Government Obligation**" means (x) any security which is (i) a direct obligation of the United States of America for the payment of which the full faith and credit of the United States of America is pledged or (ii) an obligation of a Person controlled or supervised by and acting as an agency or instrumentality of the United States of America the payment of which is unconditionally guaranteed as a full faith and credit obligation by the United States of America, which, in either case (i) or (ii), is not callable or redeemable at the option of the issuer thereof and (y) any depositary receipt issued by a bank (as defined in Section 3(a)(2) of the Securities Act) as custodian with respect to any U.S. Government Obligation which is specified in Clause (x)

above and held by such bank for the account of the holder of such depositary receipt, or with respect to any specific payment of principal or of interest on any U.S. Government Obligation which is so specified and held, provided that (except as required by law) such custodian is not authorized to make any deduction from the amount payable to the holder of such depositary receipt from any amount received by the custodian in respect of the U.S. Government Obligation or the specific payment of principal or interest evidenced by such depositary receipt.

(b) In the event of an election to have Section 13.02 apply to any Securities or any series of Securities, as the case may be, the Company shall have delivered to the Trustee an Opinion of Counsel stating that (A) the Company has received from, or there has been published by, the Internal Revenue Service a ruling or (B) since the date of this Indenture, there has been a change in the applicable Federal income tax law, in either case (A) or (B) to the effect that, and based thereon such opinion shall confirm that, the Holders of such Securities will not recognize gain or loss for Federal income tax purposes as a result of the deposit, Defeasance and discharge to be effected with respect to such Securities and will be subject to Federal income tax on the same amount, in the same manner and at the same times as would be the case if such deposit, Defeasance and discharge were not to occur.

(c) In the event of an election to have Section 13.03 apply to any Securities or any series of Securities, as the case may be, the Company shall have delivered to the Trustee an Opinion of Counsel that shall confirm that the Holders of such Securities will not recognize gain or loss for Federal income tax purposes as a result of the deposit and Covenant Defeasance to be effected with respect to such Securities and will be subject to Federal income tax on the same amount, in the same manner and at the same times as would be the case if such deposit and Covenant Defeasance were not to occur.

(d) The Company shall have delivered to the Trustee an Officer's Certificate to the effect that neither such Securities nor any other Securities of the same series, if then listed on any securities exchange, will be delisted as a result of such deposit.

(e) No event which is, or after notice or lapse of time or both would become, an Event of Default shall have occurred and be continuing at the time of such deposit (other than such event or Event of Default (if any) resulting from the incurrence of indebtedness or the grant of liens securing such indebtedness, all or a portion of the proceeds of which will be applied to such deposit).

(f) The Company shall have delivered to the Trustee an Officer's Certificate stating that the deposit was not made by the Company with the intent of preferring the Holders over any other creditors of the Company or with the intent of defeating, hindering, delaying or defrauding any other creditors of the Company or others.

(g) Such deposit shall not result in a breach of, or constitute a default under, any material agreement or instrument (other than this Indenture) to which the Company is a party or by which it is bound, or if such breach or default would occur, which is not waived as of, and for all purposes, on and after, the date of such deposit.

(h) The Company shall have delivered to the Trustee an Officer's Certificate and an Opinion of Counsel, each stating that all conditions precedent with respect to such Defeasance or Covenant Defeasance have been complied with.

Before or after a deposit, the Company may make arrangements satisfactory to the Trustee for the redemption of Securities at a future date in accordance with Article XI.

Section 13.05 Deposited Money and U.S. Government Obligations to Be Held in Trust: Miscellaneous Provisions.

Subject to the provisions of the last paragraph of Section 10.03, all money and U.S. Government Obligations (including the proceeds thereof) deposited with the Trustee or other qualifying trustee (solely for purposes of this Section and Section 13.06, the Trustee and any such other trustee are referred to collectively as the "Trustee") pursuant to Section 13.04 in respect of any Securities shall be held in trust and applied by the Trustee, in accordance with the provisions of such Securities and this Indenture, to the payment, either directly or through any such Paying Agent (including the Company acting as its own Paying Agent) as the Trustee may determine, to the Holders of such Securities, of all sums, due and to become due thereon in respect of principal and any premium and interest, but money so held in trust need not be segregated from other funds except to the extent required by law.

The Company shall pay and indemnify the Trustee against any tax, fee or other charge imposed on or assessed against the U.S. Government Obligations deposited pursuant to Section 13.04 or the principal and interest received in respect thereof other than any such tax, fee or other charge which by law is for the account of the Holders of Outstanding Securities; provided that the Trustee shall be entitled to charge any such tax, fee or other charge to such Holder's account.

Anything in this Article to the contrary notwithstanding, the Trustee shall deliver or pay to the Company from time to time upon Company Request any money or U.S. Government Obligations held by it as provided in Section 13.04 with respect to any Securities which are in excess of the amount thereof which would then be required to be deposited to effect the Defeasance or Covenant Defeasance, as the case may be, with respect to such Securities.

Section 13.06 Reinstatement.

If the Trustee or the Paying Agent is unable to apply any money in accordance with this Article with respect to any Securities by reason of any order or judgment of any court or governmental authority enjoining, restraining or otherwise prohibiting such application, then the obligations under this Indenture, such Securities from which the Company has been discharged or released pursuant to Section 13.02 or 13.03 shall be revived and reinstated as though no deposit had occurred pursuant to this Article with respect to such Securities, until such time as the Trustee or Paying Agent is permitted to apply all money held in trust pursuant to Section 13.05 with respect to such Securities in accordance with this Article; provided, however, that (a) if the Company makes any payment of principal of or any premium or interest on any such Security following such reinstatement of its obligations, the Company shall be subrogated to the rights (if any) of the Holders of such Securities to receive such payment from the money so held in trust and (b) unless otherwise required by any legal proceeding or any order or judgment of any court or governmental authority, the Trustee or Paying Agent shall return all such money and U.S. Government Obligations to the Company promptly after receiving a written request therefor at any time, if such reinstatement of the Company's obligations has occurred and continues to be in effect.

[signature pages follow]

INVIVYD, INC.

By: _____

Name: _____

Title: _____

| _____], as Trustee

By: _____

Name: _____

Title: _____



Hogan Lovells US LLP
1735 Market Street, 23rd Floor
Philadelphia, PA 19103
T +1 267 675 4600
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www.hoganlovells.com

October 2, 2025

Board of Directors
Invivyd, Inc.
209 Church Street
New Haven, CT 06510

To the addressee referred to above:

We are acting as counsel to Invivyd, Inc., a Delaware corporation (the "**Company**"), in connection with its registration statement on Form S-3 (as may be amended from time to time, the "**Registration Statement**"), filed with the Securities and Exchange Commission relating to the proposed public offering of up to \$350,000,000 in aggregate amount of one or more series of the following securities of the Company: (i) debt securities (the "**Debt Securities**"); (ii) shares of preferred stock, \$0.0001 par value per share (the "**Preferred Stock**"); (iii) shares of common stock, \$0.0001 par value per share (the "**Common Stock**"); (iv) warrants to purchase Debt Securities, Preferred Stock or Common Stock (the "**Warrants**"); and (v) units consisting of a combination of two or more of Debt Securities, Preferred Stock, Common Stock or Warrants (the "**Units**" and, together with the Preferred Stock, Common Stock, Warrants and Debt Securities, the "**Securities**"), all of which may be sold from time to time and on a delayed or continuous basis, as set forth in the prospectus which forms a part of the Registration Statement, and as to be set forth in one or more supplements to the prospectus. This opinion letter is furnished to you at your request to enable you to fulfill the requirements of Item 601(b)(5) of Regulation S-K, 17 C.F.R. § 229.601(b)(5), in connection with the Registration Statement.

For purposes of this opinion letter, we have examined copies of such agreements, instruments and documents as we have deemed an appropriate basis on which to render the opinions hereinafter expressed. In our examination of the aforesaid documents, we have assumed the genuineness of all signatures, the legal capacity of all natural persons, the accuracy and completeness of all documents submitted to us, the authenticity of all original documents, and the conformity to authentic original documents of all documents submitted to us as copies (including pdfs). As to all matters of fact, we have relied on the representations and statements of fact made in the documents so reviewed, and we have not independently established the facts so relied on. This opinion letter is given, and all statements herein are made, in the context of the foregoing.

Hogan Lovells US LLP is a limited liability partnership registered in the state of Delaware. "Hogan Lovells" is an international legal practice that includes Hogan Lovells US LLP and Hogan Lovells International LLP, with offices in: Alicante Amsterdam Baltimore Beijing Berlin Birmingham Boston Brussels Colorado Springs Denver Dubai Dublin Dusseldorf Frankfurt Hamburg Hanoi Ho Chi Minh City Hong Kong Houston London Los Angeles Luxembourg Madrid Mexico City Miami Milan Minneapolis Monterrey Munich New York Northern Virginia Paris Philadelphia Riyadh Rome San Francisco São Paulo Shanghai Silicon Valley Singapore Tokyo Washington, D.C. For more information see www.hoganlovells.com.

For purposes of this opinion letter, we have assumed that (i) the issuance, sale, amount and terms of any Securities of the Company to be offered from time to time will have been duly authorized and established by proper action of the board of directors of the Company or a duly authorized committee of such board ("**Board Action**") consistent with the procedures and terms described in the Registration Statement and in accordance with the Company's Amended and Restated Certificate of Incorporation, as amended, and Amended and Restated Bylaws, as amended, and applicable Delaware corporate law, in a manner that does not violate any law, government or court-imposed order or restriction or agreement or instrument then binding on the Company or otherwise impair the legal or binding nature of the obligations represented by the applicable Securities; (ii) at the time of offer, issuance and sale of any Securities, the Registration Statement shall have become effective under the Securities Act of 1933, as amended (the "**Act**"), and no stop order suspending its effectiveness will have been issued and remain in effect; (iii) any Debt Securities will be issued pursuant to an indenture for Debt Securities substantially in the form of such indenture filed as Exhibit 4.4 to the Registration Statement, with items shown in such exhibit as subject to completion having been completed in a satisfactory manner; (iv) the indenture under which any Debt Securities are issued will be qualified under the Trust Indenture Act of 1939, as amended; (v) any Warrants will be issued under one or more warrant agreements, as applicable, each to be between the Company and a financial institution identified therein as a warrant agent; (vi) any Units will be issued under one or more unit agreements; (vii) prior to any issuance of Preferred Stock, an appropriate certificate of designation will be accepted for record by the Secretary of State of the State of Delaware; (viii) if being sold by the Company, the Securities will be delivered against payment of valid consideration therefor and in accordance with the terms of the applicable Board Action authorizing such sale and any applicable underwriting agreement or purchase agreement and as contemplated by the Registration Statement and/or the applicable prospectus supplement; and (ix) the Company will remain a Delaware corporation.

To the extent that the obligations of the Company with respect to the Securities may be dependent upon such matters, we assume for purposes of this opinion (i) that the other party under the indenture for any Debt Securities, under the warrant agreement for any Warrants, under the unit agreement for any Units, namely, the trustee, the warrant agent or the unit agent, respectively, is duly organized, validly existing and in good standing under the laws of its jurisdiction of organization; (ii) that such other party is duly qualified to engage in the activities contemplated by such indenture, warrant agreement, or unit agreement, as applicable; (iii) that such indenture, warrant agreement, or unit agreement, as applicable, has been duly authorized, executed and delivered by the other party and constitutes the legal, valid and binding obligation of the other party enforceable against the other party in accordance with its terms; (iv) that such other party is in compliance with respect to performance of its obligations under such indenture, warrant agreement, or unit agreement, as applicable, with all applicable laws, rules and regulations; and (v) that such other party has the requisite organizational and legal power and authority to perform its obligations under such indenture, warrant agreement, or unit agreement, as applicable.

This opinion letter is based as to matters of law solely on the applicable provisions of the following, as currently in effect: (i) the Delaware General Corporation Law, as amended, and (ii) as to the opinions given in paragraphs (a), (d) and (e), the laws of the State of New York (but not including any laws, statutes, ordinances, administrative decisions, rules or regulations of any political subdivision below the state level). We express no opinion herein as to any other statutes, rules or regulations (and in particular, we express no opinion as to any effect that such other statutes, rules or regulations may have on the opinions expressed herein).

Based upon, subject to and limited by the foregoing, we are of the opinion that:

(a) The Debt Securities (including any Debt Securities duly issued upon the exercise of Warrants and receipt by the Company of any additional consideration payable upon such exercise), upon due execution and delivery of an indenture relating thereto on behalf of the Company and the trustee named therein, and upon authentication by such trustee and due execution and delivery on behalf of the Company in accordance with the indenture and any supplemental indenture relating thereto, will constitute valid and binding obligations of the Company.

(b) The Preferred Stock (including any Preferred Stock duly issued upon the exchange or conversion of Debt Securities that are exchangeable for or convertible into Preferred Stock or upon the exercise of Warrants and receipt by the Company of any additional consideration payable upon such conversion, exchange or exercise), upon due execution and delivery on behalf of the Company of certificates therefor, including global certificates, or the entry of the issuance thereof in the books and records of the Company, as the case may be, will be validly issued, fully paid and nonassessable.

(c) The Common Stock (including any Common Stock duly issued upon the exchange or conversion of Debt Securities or Preferred Stock that are exchangeable for or convertible into Common Stock or upon the exercise of Warrants and receipt by the Company of any additional consideration payable upon such conversion, exchange or exercise), upon due execution and delivery on behalf of the Company of certificates therefor, including global certificates, or the entry of the issuance thereof in the books and records of the Company, as the case may be, will be validly issued, fully paid and nonassessable.

(d) The Warrants, upon due execution and delivery of a warrant agreement relating thereto on behalf of the Company and the warrant agent named therein, as applicable, and due authentication of the Warrants by such warrant agent, as applicable, and upon due execution and delivery of the Warrants on behalf of the Company, will constitute valid and binding obligations of the Company.

(e) The Units, upon due execution and delivery of a unit agreement relating thereto on behalf of the Company, and upon due execution and delivery of one or more certificates bearing such terms on behalf of the Company, will constitute valid and binding obligations of the Company.

The opinions expressed in paragraphs (a), (d) and (e) above with respect to the valid and binding nature of obligations may be limited by bankruptcy, insolvency, reorganization, receivership, moratorium or other laws affecting creditors' rights and remedies (including, without limitation, the effect of statutory and other law regarding fraudulent conveyances and fraudulent, preferential or voidable transfers) and by the exercise of judicial discretion and the application of principles of equity, good faith, fair dealing, reasonableness, conscionability and materiality (regardless of whether the Securities are considered in a proceeding in equity or at law), including, without limitation, principles limiting the availability of specific performance and injunctive relief.

This opinion letter has been prepared for use in connection with the Registration Statement. We assume no obligation to advise of any changes in the foregoing subsequent to the effective date of the Registration Statement.

We hereby consent to the filing of this opinion letter as Exhibit 5.1 to the Registration Statement and to the reference to this firm under the caption "Legal Matters" in the prospectus constituting a part of the Registration Statement. In giving this consent, we do not thereby admit that we are an "expert" within the meaning of the Act.

Very truly yours,

/s/ HOGAN LOVELLS US LLP

HOGAN LOVELLS US LLP



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October 2, 2025

Board of Directors
Invivyd, Inc.
209 Church Street
New Haven, CT 06510

To the addressee referred to above:

We are acting as counsel to Invivyd, Inc., a Delaware corporation (the “**Company**”), in connection with the issuance and sale of up to \$75,000,000 of shares of common stock, par value \$0.0001 per share, of the Company (the “**Shares**”), from time to time and at various prices in an “at the market offering” pursuant to the Controlled Equity OfferingSM Sales Agreement, dated December 22, 2023 (the “**Agreement**”), by and between the Company and Cantor Fitzgerald & Co., as sales agent. The offering of the Shares by the Company is being made pursuant to its registration statement on Form S-3, filed with the Securities and Exchange Commission under the Securities Act of 1933, as amended (the “**Act**”), on the date hereof (as may be amended from time to time, the “**Registration Statement**”), including a base prospectus (the “**Base Prospectus**”) that forms a part thereof and a prospectus supplement (the “**Prospectus Supplement**”) and together with the Base Prospectus, the “**Prospectus**”). This opinion letter is furnished to you at your request to enable you to fulfill the requirements of Item 601(b)(5) of Regulation S-K, 17 C.F.R. § 229.601(b)(5), in connection with the Registration Statement.

For purposes of this opinion letter, we have examined copies of such agreements, instruments and documents as we have deemed an appropriate basis on which to render the opinions hereinafter expressed. In our examination of the aforesaid documents, we have assumed the genuineness of all signatures, the legal capacity of all natural persons, the accuracy and completeness of all documents submitted to us, the authenticity of all original documents, and the conformity to authentic original documents of all documents submitted to us as copies (including pdfs). As to all matters of fact, we have relied on the representations and statements of fact made in the documents so reviewed, and we have not independently established the facts so relied on. This opinion letter is given, and all statements herein are made, in the context of the foregoing.

Hogan Lovells US LLP is a limited liability partnership registered in the state of Delaware. “Hogan Lovells” is an international legal practice that includes Hogan Lovells US LLP and Hogan Lovells International LLP, with offices in: Alicante Amsterdam Baltimore Beijing Berlin Birmingham Boston Brussels Colorado Springs Denver Dubai Dublin Dusseldorf Frankfurt Hamburg Hanoi Ho Chi Minh City Hong Kong Houston London Los Angeles Luxembourg Madrid Mexico City Miami Milan Minneapolis Monterrey Munich New York Northern Virginia Paris Philadelphia Riyadh Rome San Francisco São Paulo Shanghai Silicon Valley Singapore Tokyo Washington, D.C. For more information see www.hoganlovells.com.

This opinion letter is based as to matters of law solely on the Delaware General Corporation Law, as amended. We express no opinion herein as to any other statutes, rules or regulations.

Based upon, subject to and limited by the foregoing, we are of the opinion that following (i) execution and delivery by the Company of the Agreement, (ii) effectiveness of the Registration Statement, (iii) issuance of the Shares pursuant to the terms of the Agreement, which issuance shall not exceed the Maximum Amount (as defined in the Agreement), and (iv) receipt by the Company of the consideration for the Shares specified in the resolutions of the Board of Directors or a committee designated by the Board of Directors, the Shares will be validly issued, fully paid, and nonassessable.

This opinion letter has been prepared for use in connection with the filing of the Registration Statement and Prospectus relating to the offer and sale of the Shares, and speaks as of the date hereof. We assume no obligation to advise of any changes in the foregoing subsequent to the effective date of the Registration Statement.

We hereby consent to the filing of this opinion letter as Exhibit 5.2 to the Registration Statement and to the reference to this firm under the caption "Legal Matters" in the Prospectus constituting a part of the Registration Statement. In giving this consent, we do not thereby admit that we are an "expert" within the meaning of the Act.

Very truly yours,

/s/ HOGAN LOVELLS US LLP

HOGAN LOVELLS US LLP

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We hereby consent to the incorporation by reference in this Registration Statement on Form S-3 of Invivyd, Inc. of our report dated March 20, 2025 relating to the financial statements, which appears in Invivyd, Inc.'s Annual Report on Form 10-K for the year ended December 31, 2024. We also consent to the reference to us under the heading "Experts" in such Registration Statement.

/s/ PricewaterhouseCoopers LLP
Boston, Massachusetts
October 2, 2025

Calculation of Filing Fee Tables

S-3

Invivyd, Inc.

Table 1: Newly Registered and Carry Forward Securities

Not Applicable

	Security Type	Security Class Title	Fee Calculation or Carry Forward Rule	Amount Registered	Proposed Maximum Offering Price Per Unit	Maximum Aggregate Offering Price	Fee Rate	Amount of Registration Fee	Carry Forward Form Type	Carry Forward File Number	Carry Forward Initial Effective Date	Filing Fee Previously Paid in Connection with Unsold Securities to be Carried Forward
Newly Registered Securities												
	Equity	Common Stock, \$0.0001 par value per share	457(o)									
	Equity	Preferred Stock, \$0.0001 par value per share	457(o)									
	Debt	Debt securities	457(o)									
	Other	Warrants	457(o)									
	Other	Units	457(o)									
Fees to be Paid	1	Unallocated (Universal) Shelf	457(o)			\$ 52,620,945.20	0.0001381	\$ 7,266.95				
Fees Previously Paid												
Carry Forward Securities												
Carry Forward Securities	Equity	Common Stock, \$0.0001 par value per share	415(a)(6)						S-3	333-267643	10/05/2022	
Carry Forward Securities	Equity	Preferred Stock, \$0.0001 par value per share	415(a)(6)						S-3	333-267643	10/05/2022	
Carry Forward Securities	Debt	Debt securities	415(a)(6)						S-3	333-267643	10/05/2022	
Carry Forward Securities	Other	Warrants	415(a)(6)						S-3	333-267643	10/05/2022	
Carry Forward Securities	Other	Units	415(a)(6)						S-3	333-267643	10/05/2022	
Carry Forward Securities	2	Unallocated (Universal) Shelf	415(a)(6)			\$ 297,379,054.80			S-3	333-267643	10/05/2022	\$ 27,567.03
Total Offering Amounts:						\$ 350,000,000.00		\$ 7,266.95				
Total Fees Previously Paid:								\$ 0.00				
Total Fee Offsets:								\$ 0.00				
Net Fee Due:								\$ 7,266.95				

Offering Note

(1) Invivyd, Inc. (the "Registrant") is registering under this registration statement such indeterminate number of shares of common stock and preferred stock, such indeterminate principal amount of debt securities, such indeterminate number of warrants to purchase common stock, preferred stock and/or debt securities, and such indeterminate number of units as may be sold by the Registrant from time to time, which together shall have an aggregate initial offering price not to exceed \$350,000,000. If the Registrant issues any debt securities at an original issue discount, then the offering price of such debt securities shall be in such greater principal amount at maturity as shall result in an aggregate offering price not to exceed \$350,000,000, less the aggregate dollar amount of all securities previously issued hereunder. The Registrant may sell any securities the Registrant is registering under this registration statement separately or as units with one or more of the other securities the Registrant is registering under this registration statement. The Registrant will determine, from time to time, the proposed maximum offering price per unit in connection with its issuance of the securities the Registrant is registering under this registration statement. The securities the Registrant is registering under this registration statement also include such indeterminate number of shares of common stock and preferred stock and amount of debt securities as the Registrant may issue upon conversion of or exchange for preferred stock or debt securities that provide for conversion or exchange, upon exercise of warrants or pursuant to the antidilution provisions of any of such securities. In addition, pursuant to Rule 416 under the Securities Act of 1933, as amended (the "Securities Act"), the shares the Registrant is registering under this registration statement include such indeterminate number of shares of common stock and preferred stock as may be issuable with respect to the shares the Registrant is registering as a result of stock splits, stock dividends or similar transactions. (2) The proposed maximum offering price per security will be determined from time to time by the Registrant in connection with the issuance by the Registrant of the

