

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

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

**Motus GI Holdings, Inc.**  
(Exact name of registrant as specified in its charter)

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

**81-4042793**  
(I.R.S. Employer  
Identification Number)

**1301 East Broward Boulevard, 3rd Floor  
Ft. Lauderdale, FL, 33301  
Telephone: (954) 541-8000**  
(Address, including zip code, and telephone number, including area code, of registrant's principal executive offices)

**Timothy P. Moran  
Chief Executive Officer  
Motus GI Holdings, Inc.  
1301 East Broward Boulevard, 3<sup>rd</sup> Floor  
Ft. Lauderdale, FL 33301  
Telephone: (954) 541-8000**  
(Name, address, including zip code, and telephone number, including area code, of agent for service)

*Copies of all communications, including communications sent to the agent for service, to:*

**Steven M. Skolnick, Esq.  
Michael J. Lerner, Esq.  
Lowenstein Sandler LLP  
1251 Avenue of the Americas  
New York, New York 10020  
Telephone: (212) 262-6700**

**Approximate date of commencement of proposed sale to the public:** From time to time after this Registration Statement becomes effective.

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:   
Non-accelerated filer:

Accelerated filer:   
Smaller reporting company:   
Emerging growth company:

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 7(a)(2)(B) of Securities Act

**CALCULATION OF REGISTRATION FEE**

| Title of each class of securities to be registered | Amount to<br>be<br>registered | Proposed<br>maximum<br>offering<br>price per<br>share | Proposed<br>maximum<br>aggregate<br>offering price | Amount of<br>registration<br>fee |
|--|-------------------------------|---|--|----------------------------------|
| Common Stock, par value \$0.0001 per share         | 6,000,000(1)                  | \$ 1.44(2)  | \$ 8,640,000(2)                                    | \$ 943.00                        |

- (1) Pursuant to Rule 416 under the Securities Act, this registration statement covers an indeterminate number of shares that may be issued upon stock splits, stock dividends or similar transactions.
- (2) Estimated in accordance with Rule 457(c) under the Securities Act of 1933, as amended, solely for the purpose of calculating the registration fee, based on the average of the high and low prices of shares of the registrant's Common Stock, as reported on the Nasdaq Capital Market on March 10, 2021, a date within five business days prior to the initial filing of this registration statement on March 16, 2021.

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 or until this registration statement shall become effective on such date as the Commission acting pursuant to said Section 8(a), may determine.

**The information in this prospectus is not complete and may be changed. A registration statement relating to these securities has been filed with the Securities and Exchange Commission. These securities may not be sold until the registration statement is effective. This prospectus is not an offer to sell these securities and does not solicit an offer to buy these securities in any state or other jurisdiction where the offer or sale is not permitted.**

**Subject to completion, preliminary prospectus dated March 16, 2021**



**6,000,000 Shares of Common Stock  
Issuable upon Exercise of Outstanding Warrants**

This prospectus relates to the resale from time to time, by the selling stockholder identified in this prospectus under the caption "Selling Stockholder," of up to 6,000,000 shares of our common stock, par value \$0.0001 per share (the "Warrant Shares"), it may acquire upon the exercise of outstanding warrants, which we refer to as the "Warrants". We issued the Warrants to the selling stockholder pursuant to that certain Warrant Exercise Agreement (the "Exercise Agreement"), dated as of January 27, 2021, between the Company and the selling stockholder.

The selling stockholder may, from time to time, sell, transfer or otherwise dispose of any or all of their shares of common stock or interests in their shares of common stock on any stock exchange, market or trading facility on which the shares of common stock are traded or in private transactions. These dispositions may be at fixed prices, at prevailing market prices at the time of sale, at prices related to the prevailing market price, at varying prices determined at the time of sale, or at negotiated prices. See "Plan of Distribution" in this prospectus for more information. We will not receive any proceeds from the resale or other disposition of the common stock by the selling stockholder. However, we will receive the proceeds of any cash exercise of the Warrants. See "Use of Proceeds" beginning on page 4 and "Plan of Distribution" beginning on page 6 of this prospectus for more information.

No underwriter or other person has been engaged to facilitate the sale of the Warrant Shares in this offering. The Selling Stockholders may, individually but not severally, be deemed to be an "underwriter" within the meaning of the Securities Act, of the Warrant Shares that they are offering pursuant to this prospectus. We will bear all costs, expenses and fees in connection with the registration of the Warrant Shares. The Selling Stockholder will bear all commissions and discounts, if any, attributable to its sales of the Warrant Shares.

Our common stock is listed on the Nasdaq Capital Market under the symbol "MOTS." On March 15, 2021, the last reported sale price of our common stock as reported on the Nasdaq Capital Market was \$1.60 per share.

We are an "emerging growth company" as that term is used in the Jumpstart Our Business Startups Act of 2012, and, as such, we have elected to take advantage of certain reduced public company reporting requirements for this prospectus and future filings.

You should read this prospectus, together with additional information described under the headings "Information Incorporated by Reference" and "Where You Can Find More Information," carefully before you invest in any of our securities.

**An investment in our securities involves a high degree of risk. Before deciding whether to invest in our securities, you should consider carefully the risks and uncertainties described in the section captioned "Risk Factors" contained in our Annual Report on Form 10-K for the fiscal year ended December 31, 2020 filed with the Securities and Exchange Commission on March 16, 2021 and other filings we make with the Securities and Exchange Commission from time to time, which are incorporated by reference herein in their entirety, together with other information in this prospectus and the information incorporated by reference herein.**

**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 \_\_\_\_\_, 2021

**TABLE OF CONTENTS**

|  | <b>Page</b> |
|--|-------------|
| <a href="#">FORWARD-LOOKING STATEMENTS</a> | ii          |
| <a href="#">PROSPECTUS SUMMARY</a>         | 1           |
| <a href="#">RISK FACTORS</a>               | 4           |

|   |    |
|---|----|
| <a href="#">USE OF PROCEEDS</a>                                   | 4  |
| <a href="#">SELLING STOCKHOLDERS</a>                              | 5  |
| <a href="#">PLAN OF DISTRIBUTION</a>                              | 6  |
| <a href="#">DETERMINATION OF OFFERING PRICE</a>                   | 8  |
| <a href="#">DESCRIPTION OF CAPITAL STOCK</a>                      | 8  |
| <a href="#">LEGAL MATTERS</a>                                     | 9  |
| <a href="#">EXPERTS</a>   | 9  |
| <a href="#">ADDITIONAL INFORMATION</a>                            | 10 |
| <a href="#">INCORPORATION OF CERTAIN INFORMATION BY REFERENCE</a> | 10 |

Motus GI Holdings, Inc., and its consolidated subsidiaries are referred to herein as “Motus,” “the Company,” “we,” “us” and “our,” unless the context indicates otherwise.

You may only rely on the information contained in this prospectus or that we have referred you to. We have not authorized anyone to provide you with different information. This prospectus does not constitute an offer to sell or a solicitation of an offer to buy any securities other than the securities offered by this prospectus. This prospectus and any future prospectus supplement do not constitute an offer to sell or a solicitation of an offer to buy any securities in any circumstances in which such offer or solicitation is unlawful. Neither the delivery of this prospectus or any prospectus supplement nor any sale made hereunder shall, under any circumstances, create any implication that there has been no change in our affairs since the date of this prospectus or such prospectus supplement or that the information contained by reference to this prospectus or any prospectus supplement is correct as of any time after its date.

#### CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus and the documents incorporated by reference herein contain, and our officers and representatives may from time to time make, “forward-looking statements,” which include information relating to future events, future financial performance, financial projections, strategies, expectations, competitive environment and regulation. Words such as “may,” “should,” “could,” “would,” “predicts,” “potential,” “continue,” “expects,” “anticipates,” “future,” “intends,” “plans,” “believes,” “estimates,” “goal,” “seek,” “project,” “strategy,” “likely,” and similar expressions, as well as statements in future tense, identify forward-looking statements. Forward-looking statements are neither historical facts, nor should they be read as a guarantee of future performance or results and may not be accurate indications of when such performance or results will be achieved. Forward-looking statements are based on information we have when those statements are made or management’s good faith belief as of that time with respect to future events, and are subject to risks and uncertainties that could cause actual performance or results to differ materially from those expressed in or suggested by the forward-looking statements. Important factors that could cause such differences include, but are not limited to:

- our limited operating history;
- our history of operating losses in each year since inception and expectation that we will continue to incur operating losses for the foreseeable future;
- our current and future capital requirements to support our development and commercialization efforts for the Pure-Vu System and our ability to satisfy our capital needs;
- our dependence on the Pure-Vu System, our sole product;
- our ability to obtain approval from regulatory agents in different jurisdictions for the Pure-Vu System;
- our Pure-Vu System and the procedure to cleanse the colon in preparation for colonoscopy are not currently separately reimbursable through private or governmental third-party payors;
- our lack of a developed sales and marketing organization and our ability to commercialize the Pure-Vu System;
- our dependence on third-parties to manufacture the Pure-Vu System;
- our ability to maintain or protect the validity of our patents and other intellectual property;
- our ability to retain key executives and medical and science personnel;
- our ability to internally develop new inventions and intellectual property;
- interpretations of current laws and the passages of future laws;
- acceptance of our business model by investors;
- the accuracy of our estimates regarding expenses and capital requirements;
- our ability to adequately support growth; and
- our ability to project in the short term the hospital medical device environment considering the global pandemic and strains on hospital systems.

You should rely only on the information in this prospectus. We have not authorized any other person to provide you with different information. If anyone provides you with different or inconsistent information, you should not rely upon it.

These forward-looking statements, which are subject to risks, uncertainties and assumptions about us, may include projections of our future financial performance, our anticipated growth strategies and anticipated trends in our business. These statements are only predictions based on our current expectations and projections about future events. There are important factors that could cause our actual results, level of activity, performance or achievements to differ materially from the results, level of activity, performance or achievements expressed or implied by the forward-looking statements, including those factors discussed under the caption entitled “Risk Factors” in our Annual Report on

Although we believe the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee future results, level of activity, performance or achievements. Moreover, neither we nor any other person assumes responsibility for the accuracy and completeness of any of these forward-looking statements. We are under no duty to update any of these forward-looking statements after the date of this prospectus to conform our prior statements to actual results or revised expectations.

## PROSPECTUS SUMMARY

The following summary highlights some information from this prospectus. It is not complete and does not contain all of the information that you should consider before making an investment decision. You should read this entire prospectus, including the “Risk Factors” section on page 4 and the disclosures to which that section refers you, the financial statements and related notes and the other more detailed information appearing elsewhere or incorporated by reference into this prospectus before investing in any of the securities described in this prospectus.

*When used herein, unless the context requires otherwise, references to the “Company,” “Holdings,” “we,” “our” and “us” refer to Motus GI Holdings, Inc., a Delaware corporation, collectively with our direct wholly-owned subsidiaries, Motus GI Medical Technologies, Ltd., an Israeli corporation, and Motus GI, LLC, a Delaware limited liability company.*

*All trademarks or trade names referred to in this prospectus and the information incorporated by reference herein are the property of their respective owners. Solely for convenience, the trademarks and trade names in this prospectus are referred to without the ® and ™ symbols, but such references should not be construed as any indicator that their respective owners will not assert, to the fullest extent under applicable law, their rights thereto. We do not intend the use or display of other companies’ trademarks and trade names to imply a relationship with, or endorsement or sponsorship of us by, any other companies.*

### Overview

We have developed the Pure-Vu System (the “Pure-Vu System”), a medical device that has received 510(k) clearance from the U.S. Food and Drug Administration (the “FDA”). In June 2019, the 510(k) premarket notification for the second-generation of the Pure-Vu System was reviewed and cleared by the FDA. The second-generation of our Pure-Vu System has received CE Mark approval in the European Economic Area. The Pure-Vu System is indicated to help facilitate the cleaning of a poorly prepared colon during the colonoscopy procedure. The device integrates with standard and slim colonoscopes to enable safe and rapid cleansing during the procedure while preserving established procedural workflow and techniques by irrigating the colon and evacuating the irrigation fluid (water), feces and other bodily fluids and matter. We believe that the technology may be useful in the future as a tool to help reduce user dependency on conventional pre-procedural bowel prep regimens. Challenges with bowel preparation for inpatient colonoscopy represent a significant area of unmet need that directly affects clinical outcomes and increases the cost of care for a hospital in a market segment where most of the reimbursement is under a bundle payment based on a Medicare Severity Diagnostic Related Group (a “MS-DRG”). Based on our review and analysis of 2019 market data and 2021 projections for the U.S. and Europe, as obtained from iData Research Inc., we estimate that during 2021 approximately 1.5 million inpatient colonoscopy procedures will be performed in the U.S. and approximately 4.8 million inpatient colonoscopy procedures will be performed worldwide. The Pure-Vu System does not currently have a unique reimbursement code with any private or governmental third-party payors in any country. We began commercialization in the fourth quarter of 2019, with the first commercial placements of our second generation Pure-Vu System as part of our initial U.S. market launch targeting early adopter hospitals. We do not expect to generate significant revenue from product sales until the COVID-19 pandemic has subsided and we expand our commercialization efforts for the Pure-Vu System, which is subject to significant uncertainty.

### Recent Developments

#### Warrant Exchange

On January 27, 2021, we entered into the Exercise Agreement with the investor party thereto (the “Investor”). Pursuant to the Exercise Agreement, in order to induce the Investor to exercise certain previously issued warrants (the “Old Warrants”) for cash, we agreed, subject to beneficial ownership limitations contained in the Old Warrants, to issue to the Investor Warrants to purchase 0.75 shares of common stock for each share of common stock issued upon such exercise of the remaining 8,000,000 outstanding Old Warrants, or an aggregate of 6,000,000 Warrants. The Warrants have an exercise price of \$2.12, were immediately exercisable upon issuance and expire on January 27, 2026.

### Implications of Being an Emerging Growth Company

We are an “emerging growth company,” as defined in the Jumpstart Our Business Startups Act of 2012 (the “JOBS Act”), and, for as long as we continue to be an “emerging growth company,” we may choose to take advantage of exemptions from various reporting requirements applicable to other public companies but not to “emerging growth companies,” including, but not limited to, not being required to comply with the auditor attestation requirements of Section 404 of the Sarbanes-Oxley Act of 2002, as amended, (the “Sarbanes-Oxley Act”), reduced disclosure obligations regarding executive compensation in our periodic reports and proxy statements, and exemptions from the requirements of holding a nonbinding advisory vote on executive compensation and stockholder approval of any golden parachute payments not previously approved. We could be an “emerging growth company” for up to five years from the date of our initial public offering in February 2018, or until the earliest of (i) the last day of the first fiscal year in which our annual gross revenues exceed \$1.07 billion, (ii) the date that we become a “large accelerated filer” as defined in Rule 12b-2 under the Exchange Act, which would occur if the market value of our Common Stock that is held by non-affiliates exceeds \$700 million as of the last business day of our most recently completed second fiscal quarter, or (iii) the date on which we have issued more than \$1 billion in non-convertible debt during the preceding three-year period. We intend to take advantage of these reporting exemptions described above until we are no longer an “emerging growth company.” Under the JOBS Act, “emerging growth companies” can also delay adopting new or revised accounting standards until such time as those standards apply to private companies. We have irrevocably elected not to avail ourselves of this exemption from new or revised accounting standards and, therefore, we will be subject to the same new or revised accounting standards as other public companies that are not “emerging growth companies.”

### Corporate Information

We are a Delaware corporation formed in September 2016 under the name Eight-Ten Merger Corp. In November 2016, we changed our name to Motus GI Holdings, Inc. We are the parent company of Motus GI Medical Technologies Ltd., an Israeli corporation, and Motus GI, LLC a Delaware limited liability company.

Our principal executive offices are located at 1301 East Broward Boulevard, 3rd Floor, Ft. Lauderdale, FL 33301. Our phone number is (954) 541-8000 and our web address is [www.motusgi.com](http://www.motusgi.com). Our website and the information contained on, or that can be accessed through, our website will not be deemed to be incorporated by reference in, and are not considered part of, this prospectus. You should not rely on our website or any such information in making your decision whether to purchase our

### The Offering

This prospectus relates to the resale or other disposition from time to time by the selling stockholder identified in this prospectus of up to 6,000,000 shares of our common stock issuable upon exercise of the Warrants. None of the shares registered hereby are being offered for sale by us.

**Common stock offered by the selling stockholder**

Up to 6,000,000 shares of common stock issuable upon exercise of the Warrants.

**Use of proceeds**

We will not receive any proceeds from the sale of shares of common stock offered by the selling stockholder under this prospectus. However, we will receive the proceeds of any cash exercise of the Warrants. If all of the Warrants were exercised for cash, we would receive aggregate proceeds of approximately \$12.7 million. We intend to use the net proceeds from any cash exercise of the Warrants to fund commercialization activities for our Pure-Vu System, to continue research and development activities, including clinical and regulatory development and for the continued development and enhancement of the Pure-Vu System, and acquisitions or investments in businesses, products or technologies that are complementary to our own. We intend to use the remaining net proceeds for working capital and other general corporate purposes.

**Listing Information**

Our common stock is listed on the Nasdaq Capital Market under the symbol "MOTS." On March 15, 2021, the last reported sale price of our common stock as reported on the Nasdaq Capital Market was \$1.60 per share.

**Risk Factors**

An investment in our securities involves a high degree of risk. Before deciding whether to invest in our securities, you should consider carefully the risks and uncertainties described in the section captioned "Risk Factors" contained in our Annual Report on Form 10-K for the fiscal year ended December 31, 2020 filed with the Securities and Exchange Commission on March 16, 2021 and other filings we make with the Securities and Exchange Commission from time to time, which are incorporated by reference herein in their entirety, together with other information in this prospectus and the information incorporated by reference herein.

### RISK FACTORS

An investment in our securities involves a high degree of risk. Before deciding whether to invest in our securities, you should consider carefully the risks and uncertainties described in the section captioned "Risk Factors" contained in our Annual Report on Form 10-K for the fiscal year ended December 31, 2020 filed with the Securities and Exchange Commission on March 16, 2021 and other filings we make with the Securities and Exchange Commission from time to time, which are incorporated by reference herein in their entirety, together with other information in this prospectus and the information incorporated by reference herein. For a description of these reports and documents, and information about where you can find them, see "Additional Information" and "Incorporation of Certain Information By Reference." Additional risks not presently known or that we presently consider to be immaterial could subsequently materially and adversely affect our and the information incorporated by reference herein. If any of these risks actually occurs, our business, financial condition, results of operations or cash flow could suffer materially. In such event, the trading price of our common stock could decline, and you might lose all or part of your investment.

### USE OF PROCEEDS

We will not receive any proceeds from the sale of shares of common stock offered by the selling stockholder under this prospectus. However, we will receive the proceeds of any cash exercise of the Warrants. If all of the Warrants were exercised for cash, we would receive aggregate proceeds of approximately \$12.7 million. We intend to use the net proceeds from any cash exercise of the Warrants to fund commercialization activities for our Pure-Vu System, to continue research and development activities, including clinical and regulatory development and for the continued development and enhancement of the Pure-Vu System, and acquisitions or investments in businesses, products or technologies that are complementary to our own. We intend to use the remaining net proceeds for working capital and other general corporate purposes.

### SELLING STOCKHOLDER

This prospectus covers the resale or other disposition by the selling stockholder identified in the table below of up to an aggregate of 6,000,000 shares of our common stock issuable upon the exercise of our outstanding Warrants.

The selling stockholder acquired its securities in the transactions described above under the heading "Prospectus Summary – Recent Developments – Warrant Exchange."

The Warrants held by the selling stockholder contain limitations which prevent the holder from exercising those warrants if such exercise would cause the selling stockholder, together with certain related parties, to beneficially own a number of shares of common stock which would exceed 4.99% of our then outstanding common stock following such exercise, excluding for purposes of such determination, common stock issuable upon exercise of the Warrants which have not been exercised.

The table below sets forth, as of February 23, 2021, the following information regarding the selling stockholder:

- the name of the selling stockholder;

- the number of shares of common stock owned by the selling stockholder prior to this offering, without regard to any beneficial ownership limitations contained in the Warrants ;
- the number of shares of common stock to be offered by the selling stockholder in this offering;
- the number of shares of common stock to be owned by the selling stockholder assuming the sale of all of the shares of common stock covered by this prospectus; and
- the percentage of our issued and outstanding shares of common stock to be owned by the selling stockholder assuming the sale of all of the common stock covered by this prospectus based on the number of shares of common stock issued and outstanding as of February 23, 2021.

Except as described above, the number of shares of common stock beneficially owned by the selling stockholder has been determined in accordance with Rule 13d-3 under the Exchange Act and includes, for such purpose, shares of common stock that the selling stockholder has the right to acquire within 60 days of February 23, 2021.

All information with respect to the common share ownership of the selling stockholder has been furnished by or on behalf of the selling stockholder. We believe, based on information supplied by the selling stockholder, that except as may otherwise be indicated in the footnotes to the table below, the selling stockholder has sole voting and dispositive power with respect to the shares of common stock reported as beneficially owned by it. Because the selling stockholder identified in the table may sell some or all of the shares of common stock beneficially owned by it and covered by this prospectus, and because there are currently no agreements, arrangements or understandings with respect to the sale of any of the shares of common stock, no estimate can be given as to the number of shares of common stock available for resale hereby that will be held by the selling stockholder upon termination of this offering. In addition, the selling stockholder may have sold, transferred or otherwise disposed of, or may sell, transfer or otherwise dispose of, at any time and from time to time, the shares of common stock they beneficially own in transactions exempt from the registration requirements of the Securities Act after the date on which they provided the information set forth in the table below. We have, therefore, assumed for the purposes of the following table, that the selling stockholder will sell all of the shares of common stock owned beneficially by it that are covered by this prospectus, but will not sell any other shares of common stock that they presently own. The selling stockholder has not held any position or office, or has otherwise had a material relationship, with us or any of our subsidiaries within the past three years other than as a result of the ownership of our common stock or other securities.

| <b>Name of Selling Stockholder</b>     | <b>Shares<br/>Owned prior to<br/>Offering</b> | <b>Shares<br/>Offered<br/>by this<br/>Prospectus</b> | <b>Shares<br/>Owned after<br/>Offering</b> | <b>Percentage of<br/>Shares<br/>Beneficially<br/>Owned after<br/>Offering</b> |
|--|---|--|--|---|
| Armistice Capital Master Fund Ltd. (1) | 6,000,000                                     | 6,000,000  | -  | -   |

- (1) Consists of Warrants to purchase up to 6,000,000 shares of common stock. The exercise of the Warrants held by Armistice Capital Master Fund Ltd. (the "Fund") are subject to a 4.99% beneficial ownership blocker. The number of shares listed in the second and fourth columns are based on the number of shares of common stock and the Warrants held by Armistice, assuming exercise in full of the Warrants without regard to any limitations on exercise. Armistice Capital, LLC ("Armistice Capital"), the investment manager of the Fund, and Steven Boyd, the managing member of Armistice Capital, hold shared voting and dispositive power over the shares held by the Fund. Each of Armistice Capital and Steven Boyd disclaims beneficial ownership of the securities listed except to the extent of their pecuniary interest therein. The address of the Fund is c/o Armistice Capital, LLC, 510 Madison Avenue, 7th Floor, New York, NY 10022.

#### PLAN OF DISTRIBUTION

The selling stockholder, which as used herein includes donees, pledgees, transferees or other successors-in-interest selling the shares of common stock, or interests in the shares of common stock received after the date of this prospectus from a selling stockholder as a gift, pledge, partnership distribution or other transfer, may, from time to time, sell, transfer or otherwise dispose of any or all of their shares of common stock or interests in the shares of common stock on any stock exchange, market or trading facility on which the shares are traded or in private transactions. The selling stockholder may sell all or a portion of the shares of common stock held by it and offered hereby from time to time directly or through one or more underwriters, broker-dealers or agents. If the shares of common stock are sold through underwriters or broker-dealers, the selling stockholder will be responsible for underwriting discounts or commissions or agent's commissions. The shares of common stock may be sold in one or more transactions at fixed prices, at prevailing market prices at the time of the sale, at varying prices determined at the time of sale or at negotiated prices. These sales may be effected in transactions, which may involve crosses or block transactions, pursuant to one or more of the following methods:

- on any national securities exchange or quotation service on which the securities may be listed or quoted at the time of sale;
- in the over-the-counter market;
- in transactions otherwise than on these exchanges or systems or in the over-the-counter market;
- through the writing or settlement of options or other hedging transactions, whether such options are listed on an options exchange or otherwise;
- ordinary brokerage transactions and transactions in which the broker-dealer solicits purchasers;
- block trades in which the broker-dealer will attempt to sell the shares as agent but may position and resell a portion of the block as principal to facilitate the transaction;
- purchases by a broker-dealer as principal and resale by the broker-dealer for its account;
- an exchange distribution in accordance with the rules of the applicable exchange;
- privately negotiated transactions;
- short sales effected after the date the registration statement of which this prospectus is a part was declared effective by the SEC;
- broker-dealers may agree with a selling stockholder to sell a specified number of such shares at a stipulated price per share;
- a combination of any such methods of sale; and
- any other method permitted pursuant to applicable law.

The aggregate proceeds to the selling stockholder from the sale of the shares of common stock offered by it will be the purchase price of the shares of common stock less discounts or commissions, if any. The selling stockholder reserves the right to accept and, together with their agents from time to time, to reject, in whole or in part, any proposed purchase of shares of common stock to be made directly or through agents. We will not receive any of the proceeds from sales of shares by the selling stockholder.

The selling stockholder may also sell shares of common stock under Rule 144 promulgated under the Securities Act, if available, rather than under this prospectus. In addition, the selling stockholder may transfer the shares of common stock by other means not described in this prospectus. If the selling stockholder effects such transactions by selling shares of common stock to or through underwriters, broker-dealers or agents, such underwriters, broker-dealers or agents may receive commissions in the form of discounts, concessions or commissions from the selling stockholders or commissions from purchasers of the shares of common stock for whom they may act as agent or to whom they may sell as principal (which discounts, concessions or commissions as to particular underwriters, broker-dealers or agents may be in excess of those customary in the types of transactions involved but, except as set forth in a supplement to this prospectus to the extent required, in the case of an agency transaction will not be in excess of a customary brokerage commission in compliance with FINRA Rule 5110).

In connection with sales of the shares of common stock or otherwise, the selling stockholder may enter into hedging transactions with broker-dealers or other financial institutions, which may in turn engage in short sales of the shares of common stock in the course of hedging in positions they assume. The selling stockholder may also sell shares of common stock short and deliver shares of common stock covered by this prospectus to close out short positions and to return borrowed shares in connection with such short sales. The selling stockholder may also loan or pledge shares of common stock to broker-dealers that in turn may sell such shares. The selling stockholder may also enter into option or other transactions with broker-dealers or other financial institutions or the creation of one or more derivative securities which require the delivery to such broker-dealer or other financial institution of shares of common stock offered by this prospectus, which shares of common stock such broker-dealer or other financial institution may resell pursuant to this prospectus (as supplemented or amended to reflect such transaction).

The selling stockholder may pledge or grant a security interest in some or all of the shares of common stock owned by it and, if they default in the performance of their secured obligations, the pledgees or secured parties may offer and sell the shares of common stock from time to time pursuant to this prospectus or any amendment to this prospectus under Rule 424(b)(3) or other applicable provision of the Securities Act amending, if necessary, the list of selling stockholders to include the pledgee, transferee or other successors in interest as selling stockholders under this prospectus. The selling stockholder also may transfer and donate the shares of common stock in other circumstances as permitted by applicable law, in which case the transferees, donees, pledgees or other successors in interest will be the selling beneficial owners for purposes of this prospectus.

To the extent required by the Securities Act and the rules and regulations thereunder, the selling stockholder and any broker-dealer participating in the distribution of the shares of common stock may be deemed to be “underwriters” within the meaning of the Securities Act. In such event, any commission paid, or any discounts or concessions allowed to, any such broker-dealer may be deemed to be underwriting commissions or discounts under the Securities Act. Selling stockholders who are deemed to be “underwriters” under the Securities Act (if any) will be subject to the prospectus delivery requirements of the Securities Act and may be subject to certain statutory liabilities of, including but not limited to, Sections 11, 12 and 17 of the Securities Act and Rule 10b-5 under the Exchange Act.

Each selling stockholder has informed us that it is not a registered broker-dealer and does not have any written or oral agreement or understanding, directly or indirectly, with any person to engage in a distribution of the shares of common stock. Upon us being notified in writing by a selling stockholder that any material arrangement has been entered into with a broker-dealer for the distribution of shares of common stock, a prospectus supplement, if required, will be distributed, which will set forth the aggregate amount of shares of common stock being distributed and the terms of the offering, including the name or names of any broker-dealers or agents, any discounts, commissions and other terms constituting compensation from the selling stockholder and any discounts, commissions or concessions allowed or re-allowed or paid to broker-dealers.

Under the securities laws of some states, the shares of common stock may be sold in such states only through registered or licensed brokers or dealers. In addition, in some states the shares of common stock may not be sold unless such shares have been registered or qualified for sale in such state or an exemption from registration or qualification is available and is complied with.

The selling stockholder may sell all, some or none of the shares of common stock registered pursuant to the registration statement of which this prospectus forms a part. If sold under the registration statement of which this prospectus forms a part, the shares of common stock registered hereunder will be freely tradable in the hands of persons other than our affiliates that acquire such shares.

We have advised the selling stockholder that the anti-manipulation rules of Regulation M under the Exchange Act may apply to sales of shares of common stock in the market and to the activities of the selling stockholder and its affiliates. In addition, to the extent applicable, we will make copies of this prospectus (as it may be supplemented or amended from time to time) available to the selling stockholder for the purpose of satisfying the prospectus delivery requirements of the Securities Act. The selling stockholder may indemnify any broker-dealer that participates in transactions involving the sale of the shares of common stock against certain liabilities, including liabilities arising under the Securities Act.

## DETERMINATION OF OFFERING PRICE

The prices at which the shares of common stock covered by this prospectus may actually be sold will be determined by the prevailing public market price for shares common stock, by negotiations between the selling stockholder and buyers of our Common Stock in private transactions or as otherwise described in “Plan of Distribution.”

## DESCRIPTION OF CAPITAL STOCK

### Capital Stock

For a description of our capital stock, please see the Description of Securities included as Exhibit 4.15 to our Annual Report on Form 10-K for the year ended December 31, 2020, filed with the SEC on March 16, 2021, which is incorporated by reference herein. See “Information Incorporated by Reference” and “Where You Can Find More Information.”

### Warrants

The Warrants were issued pursuant to the Exercise Agreement. As of March 15, 2021, the Warrants were exercisable for an aggregate of 6,000,000 shares of common stock.

#### *Duration and Exercise Price*

The Warrants have an exercise price of \$2.12 per share. The Warrants were immediately exercisable upon issuance and have a term of five years. The exercise price and number of shares of common stock issuable upon exercise are subject to appropriate adjustment in the event of share dividends, share splits, reorganizations or similar events affecting our shares of common stock. The Warrants were issued in certificated form only.

#### *Exercisability*

The Warrants are exercisable, at the option of each holder, in whole or in part, by delivering to us a duly executed exercise notice accompanied by payment in full for the number of shares of common stock purchased upon such exercise (except in the case of a cashless exercise as discussed below). A holder (together with its affiliates) may not exercise any portion of such holder's Warrants to the extent that the holder would own more than 4.99% (or, at the election of the purchaser, 9.99%) of our outstanding shares of common stock immediately after exercise, except that upon at least 61 days' prior notice from the holder to us, the holder may increase the amount of ownership of outstanding shares of common stock after exercising the holder's Private Placement Warrants up to 9.99% of the number of shares of common stock outstanding immediately after giving effect to the exercise, as such percentage ownership is determined in accordance with the terms of the Warrants.

#### *Cashless Exercise*

If after the six month anniversary of the issue date of the Warrants there is no effective registration statement registering, or the prospectus contained therein is not available for the resale of the shares of common stock issuable upon exercise of the Warrants, then the Warrants will also be exercisable on a "cashless exercise" basis under which the holder will receive upon such exercise a net number of common shares determined according to a formula set forth in the Warrants.

#### *Fundamental Transactions*

In the event of any fundamental transaction, as described in the Warrants and generally including any merger with or into another entity, sale of all or substantially all of our assets, tender offer or exchange offer, or reclassification of our shares of common stock, then upon any subsequent exercise of a Warrant, the holder will have the right to receive as alternative consideration, for each share of common stock that would have been issuable upon such exercise immediately prior to the occurrence of such fundamental transaction, the number of shares of common stock of the successor or acquiring corporation or of our company, if it is the surviving corporation, and any additional consideration receivable upon or as a result of such transaction by a holder of the number of shares of common stock for which the Warrant is exercisable immediately prior to such event.

---

8

---

#### *Transferability*

In accordance with its terms and subject to applicable laws, a Warrant may be transferred at the option of the holder upon surrender of the Warrant to us together with the appropriate instruments of transfer and payment of funds sufficient to pay any transfer taxes (if applicable).

#### *Fractional Shares*

No fractional shares of common stock will be issued upon the exercise of the Warrants. Rather, the number of shares of common stock to be issued will, at our election, either be rounded up to the nearest whole number or we will pay a cash adjustment in respect of such final fraction in an amount equal to such fraction multiplied by the exercise price.

#### *Trading Market*

There is no established trading market for the Warrants, and we do not expect a market to develop. We do not intend to apply for a listing for the Warrants on any securities exchange or other nationally recognized trading system. Without an active trading market, the liquidity of the Warrants will be limited.

#### *Rights as a Shareholder*

Except as otherwise provided in the Warrants or by virtue of the holders' ownership of shares of common stock, the holders of Warrants do not have the rights or privileges of holders of our shares of common stock, including any voting rights, until such Warrant holders exercise their warrants.

#### *Amendment and Waiver.*

A Warrant may be modified or amended or the provisions thereof waived with the written consent of our company and the holder of the Warrant.

#### *Registration Rights.*

We have filed this registration statement with the SEC that includes this prospectus to register for resale under the Securities Act of 1933, the shares of common stock issuable upon exercise of the Warrants to satisfy our obligations in connection with Exercise Agreement. We will use commercially reasonable efforts to keep such registration statement effective at all times until the selling stockholder no longer owns any Warrants or shares issuable upon exercise thereof.

### **LEGAL MATTERS**

Unless otherwise indicated in the applicable prospectus supplement, the validity of the securities offered hereby will be passed upon for us by Lowenstein Sandler LLP, New York, New York. If the validity of the securities offered hereby in connection with offerings made pursuant to this prospectus are passed upon by counsel for the underwriters, dealers or agents, if any, such counsel will be named in the prospectus supplement relating to such offering.

### **EXPERTS**

The consolidated balance sheets of Motus GI Holdings, Inc. and Subsidiaries as of December 31, 2020 and 2019, and the related consolidated statements of comprehensive loss, shareholders' equity, and cash flows for each of the years then ended, have been audited by EisnerAmper LLP, independent registered public accounting firm, as stated in their report which is incorporated herein by reference, which report includes an explanatory paragraph about the existence of substantial doubt concerning the Company's ability to continue as a going concern. Such financial statements have been incorporated herein by reference in reliance on the report of such firm given upon their authority as experts in accounting and auditing.

---

9

---

### **ADDITIONAL INFORMATION**

This prospectus is part of a registration statement on Form S-3 that we have filed with the SEC relating to the securities being offered hereby. This prospectus does not contain all of the information in the registration statement and its exhibits. The registration statement, its exhibits and the documents incorporated by reference in this prospectus and their exhibits, all contain information that is material to the offering of the securities hereby. Whenever a reference is made in this prospectus to any of our contracts or other



documents, the reference may not be complete. You should refer to the exhibits that are a part of the registration statement in order to review a copy of the contract or documents. The registration statement and the exhibits are available at the SEC's Public Reference Room or through its Website.

We file annual, quarterly and current reports, proxy statements and other information with the SEC. You can read and copy any materials we file with the SEC at its Public Reference Room at 100 F Street, N.E., Washington, D.C. 20549 and at its regional offices, a list of which is available on the Internet at <http://www.sec.gov/contact/addresses.htm>. You may obtain information on the operation of the Public Reference Room by calling the SEC at 1-800-SEC-0330. The SEC maintains an Internet site at <http://www.sec.gov> that contains reports, proxy and information statements, and other information regarding issuers, such as us, that file electronically with the SEC. Additionally, you may access our filings with the SEC through our website at <http://www.sonnetbio.com>. The information on our website is not part of this prospectus.

We will provide you without charge, upon your oral or written request, with a copy of any or all reports, proxy statements and other documents we file with the SEC, as well as any or all of the documents incorporated by reference in this prospectus or the registration statement (other than exhibits to such documents unless such exhibits are specifically incorporated by reference into such documents). Requests for such copies should be directed to:

Motus GI Holdings, Inc.  
Attn: Timothy P. Moran  
1301 East Broward Boulevard, 3rd Floor  
Ft. Lauderdale, FL, 33301  
Telephone: (954) 541-8000

You should rely only on the information in this prospectus and the additional information described above and under the heading "Incorporation of Certain Information by Reference" below. We have not authorized any other person to provide you with different information. If anyone provides you with different or inconsistent information, you should not rely upon it. We are not making an offer to sell these securities in any jurisdiction where the offer or sale is not permitted. You should assume that the information in this prospectus was accurate on the date of the front cover of this prospectus only. Our business, financial condition, results of operations and prospects may have changed since that date.

### INCORPORATION OF CERTAIN INFORMATION BY REFERENCE

The SEC allows us to "incorporate by reference" information that we file with it into this prospectus, which means that we can disclose important information to you by referring you to those documents. The information incorporated by reference is an important part of this prospectus. The information incorporated by reference is considered to be a part of this prospectus, and information that we file later with the SEC will automatically update and supersede information contained in this prospectus and any accompanying prospectus supplement.

We incorporate by reference the documents listed below that we have previously filed with the SEC:

- our Annual Report on Form 10-K for the fiscal year ended December 31, 2020, filed with the SEC on March 16, 2021;
- our Current Reports on Form 8-K filed with the SEC on [January 20, 2021](#) and [January 27, 2021](#) (other than information "furnished" under Items 2.02 or 7.01, or corresponding information furnished under Item 9.01 or included as an exhibit); and
- the description of our common stock contained in our Registration Statement on [Form 8-A](#), filed on February 6, 2018, including any amendments thereto or reports filed for the purposes of updating this description, including the Description of Securities filed as Exhibit 4.15 to our Annual Report on Form 10-K for the fiscal year ended December 31, 2020.

All reports and other documents that we file with the SEC under Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act after the date of the initial registration statement and prior to effectiveness of the registration statement and after the date of this prospectus but before the termination of the offering of the securities hereunder will also be considered to be incorporated by reference into this prospectus from the date of the filing of these reports and documents, and will supersede the information herein; provided, however, that all reports, exhibits and other information that we "furnish" to the SEC will not be considered incorporated by reference into this prospectus. We undertake to provide without charge to each person (including any beneficial owner) who receives a copy of this prospectus, upon written or oral request, a copy of all of the preceding documents that are incorporated by reference (other than exhibits, unless the exhibits are specifically incorporated by reference into these documents). You may request a copy of these materials in the manner set forth under the heading "Additional Information," above.

## PART II

### INFORMATION NOT REQUIRED IN PROSPECTUS

#### Item 14. Other Expenses of Issuance and Distribution

The following table sets forth the costs and expenses payable in connection with the sale and distribution of the securities being registered. All amounts are estimates except the Securities and Exchange Commission ("SEC") registration fee.

|                              |           |               |
|------------------------------|-----------|---------------|
| SEC Registration Fee         | \$        | 943           |
| Legal Fees and Expenses      |           | 25,000*       |
| Accounting Fees and Expenses |           | 10,000*       |
| Printing                     |           | 5,000*        |
| Miscellaneous                |           | 4,057*        |
| <b>Total</b>                 | <b>\$</b> | <b>45,000</b> |

\* Estimated.

#### Item 15. Indemnification of Directors and Officers

Section 145 of the Delaware General Corporation Law (the "DGCL") provides, in general, that a corporation incorporated under the laws of the State of Delaware, as we are, may indemnify any person who was or is a party or is threatened to be made a party to any threatened, pending or completed action, suit or proceeding (other than a derivative action by or in the right of the corporation) by reason of the fact that such person is or was a director, officer, employee or agent of the corporation, or is or was serving at the request of the corporation as a director, officer, employee or agent of another enterprise, against expenses (including attorneys' fees), judgments, fines and amounts paid in settlement actually and reasonably incurred by such person in connection with such action, suit or proceeding 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, with respect to any criminal action or proceeding, had no reasonable cause to believe such person's conduct was unlawful. In the case of a derivative action, a Delaware corporation may indemnify any such person against expenses (including attorneys' fees) actually and reasonably incurred by such person in connection with the defense or settlement of such action or suit 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, except that no indemnification will be made in respect of any claim, issue or matter as to which such person will have been adjudged to be liable to the corporation unless and only to the extent that the Court of Chancery of the State of Delaware or any other court in which such action was brought determines such person is fairly and reasonably entitled to indemnity for such expenses.

Our certificate of incorporation and bylaws provide that we will indemnify our directors, officers, employees and agents to the extent and in the manner permitted by the provisions of the DGCL, as amended from time to time, subject to any permissible expansion or limitation of such indemnification, as may be set forth in any amendment by stockholders or directors resolution. Any repeal or modification of these provisions approved by our stockholders will be prospective only and will not adversely affect any limitation on the liability of any of our directors or officers existing as of the time of such repeal or modification

We have director and officer liability insurance to cover liabilities our directors and officers may incur in connection with their services to us, including matters arising under the Securities Act.

We have entered into indemnification agreements with all of our directors and named executive officers whereby we have agreed to indemnify those directors and officers to the fullest extent permitted by law, including indemnification against expenses and liabilities incurred in legal proceedings to which the director or officer was, or is threatened to be made, a party by reason of the fact that such director or officer is or was a director, officer, employee or agent of the Company provided that such director or officer acted in good faith and in a manner that the director or officer reasonably believed to be in, or not opposed to, the best interests of the Company.

---

II-1

---

#### Item 16. Exhibits

The Index to Exhibits listing the exhibits required by Item 601 of Regulation S-K is located on the page immediately following the signature page to this registration statement.

#### Item 17. Undertakings

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:
  - (a) To include any prospectus required by Section 10(a)(3) of the Securities Act of 1933,
  - (b) 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 Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20 percent change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement,
  - (c) 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 (1)(a), (1)(b) and (1)(c) above do not apply if the information required to be included in a post-effective amendment by those paragraphs is contained in periodic reports filed with or furnished to the Commission by the registrant pursuant to Section 13 or Section 15(d) of the Securities Exchange Act of 1934 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:
  - (a) If the registrant is relying on Rule 430B:
    - (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 that 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.
  - (b) If the registrant is subject to Rule 430C, each prospectus filed pursuant to Rule 424(b) as part of a registration statement relating to an offering, other than registration statements relying on Rule 430B or other than prospectuses filed in reliance on Rule 430A, shall be deemed to be a part of and included in the registration statement as of the date it is first used after effectiveness. *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 first use, 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 date of first use.

- (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 registrant undertakes that in a primary offering of securities of the 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 registrant will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:
- (a) Any preliminary prospectus or prospectus of the registrant relating to the offering required to be filed pursuant to Rule 424;
  - (b) Any free writing prospectus relating to the offering prepared by or on behalf of the registrant or used or referred to by the registrant;
  - (c) The portion of any other free writing prospectus relating to the offering containing material information about registrant or its securities provided by or on behalf of the registrant; and
  - (d) Any other communication that is an offer in the offering made by a registrant to the purchaser.
- (6) 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 Securities Exchange Act of 1934 (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Securities Exchange Act of 1934) that is incorporated by reference in the registration statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.
- (9) 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 forgoing 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 Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the registrant of expenses incurred or paid by a director, officer or controlling person of the registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Act and will be governed by the final adjudication of such issue.

**SIGNATURES**

Pursuant to the requirements of the Securities Act of 1933, the registrant 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 Ft. Lauderdale, State of Florida on March 16, 2021.

**MOTUS GI HOLDINGS, INC.**

By: /s/ Timothy P. Moran  
 Timothy P. Moran  
 Chief Executive Officer

**POWER OF ATTORNEY AND SIGNATURES**

Each person whose signature appears below constitutes and appoints Timothy P. Moran and Andrew Taylor and each of them singly, his or her true and lawful attorneys-in-fact and agents, with full power of substitution and resubstitution, for him or her and in his or her name, place and stead, in any and all capacities, to sign any and all amendments (including, without limitation, post-effective amendments) to this registration statement and any and all additional registration statements pursuant to Rule 462(b) of the Securities Act of 1933, as amended (the "Securities Act") and to file the same, with all exhibits thereto and all other documents in connection therewith, with the SEC, granting unto each said attorney-in-fact and agent full power and authority to do and perform each and every act in person, hereby ratifying and confirming all that said attorneys-in-fact and agents or either of them or their, 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, this Registration Statement has been signed by the following persons on behalf of the registrant in the capacities and on the dates indicated.

| Person  | Capacity  | Date           |
|---|---|----------------|
| <u>/s/ Timothy P. Moran</u><br>Timothy P. Moran | Chief Executive Officer and Director<br>(Principal Executive Officer)   | March 16, 2021 |
| <u>/s/ Andrew Taylor</u><br>Andrew Taylor       | Chief Financial Officer<br>(Principal Financial and Accounting Officer) | March 16, 2021 |
| <u>/s/ David Hochman</u><br>David Hochman       | Chairman of the Board   | March 16, 2021 |
| <u>/s/ Mark Pomeranz</u><br>Mark Pomeranz       | President, Chief Operating Officer, and Director                        | March 16, 2021 |
| <u>/s/ Darren Sherman</u><br>Darren Sherman     | Director  | March 16, 2021 |
| <u>/s/ Samuel Nussbaum</u><br>Samuel Nussbaum   | Director  | March 16, 2021 |
| <u>/s/ Shervin Korangy</u><br>Shervin Korangy   | Director  | March 16, 2021 |

## INDEX TO EXHIBITS

| Exhibit Number | Exhibit Description   | Incorporated by Reference |            |         |             | Filed Herewith |
|----------------|---|---------------------------|------------|---------|-------------|----------------|
|                |   | Form                      | File No.   | Exhibit | Filing Date |                |
| 3.1            | <a href="#">Certificate of Incorporation</a>  | S-1                       | 333-222441 | 3.1     | 1/5/2018    |                |
| 3.2            | <a href="#">Certificate of Amendment to the Certificate of Incorporation</a>  | S-1                       | 333-222441 | 3.2     | 1/5/2018    |                |
| 3.3            | <a href="#">Certificate of Amendment to the Certificate of Incorporation</a>  | 8-K                       | 001-38389  | 3.1     | 8/14/2020   |                |
| 3.4            | <a href="#">Bylaws</a>  | S-1                       | 333-222441 | 3.3     | 1/5/2018    |                |
| 3.5            | <a href="#">Certificate of Designations of Series A Convertible Preferred Stock</a>   | S-1                       | 333-222441 | 3.4     | 1/5/2018    |                |
| 3.6            | <a href="#">Certificate of Amendment of Certificate of Designations of Series A Convertible Preferred Stock</a>   | 10-Q                      | 001-38389  | 3.1     | 5/14/2018   |                |
| 4.1            | <a href="#">Form of Common Stock Certificate</a>  | S-1                       | 333-222441 | 4.1     | 1/5/2018    |                |
| 4.2            | <a href="#">Form of Warrant</a>   | 8-K                       | 001-38389  | 4.1     | 1/27/2021   |                |
| 5.1            | <a href="#">Opinion of Lowenstein Sandler LLP</a>   |                           |            |         |             | X              |
| 10.31          | <a href="#">Form of Warrant Exercise Agreement, dated as of January 27, 2021, by and between Motus GI Holdings, Inc. and the Investor party thereto</a> | 8-K                       | 001-38389  | 10.1    | 1/27/2021   |                |
| 23.1           | <a href="#">Consent of Independent Registered Public Accounting Firm</a>  |                           |            |         |             | X              |
| 23.2           | <a href="#">Consent of Lowenstein Sandler LLP (included in Exhibit 5.1)</a>   |                           |            |         |             | X              |
| 24.1           | <a href="#">Power of Attorney (contained in the signature page of this registration statement)</a>  |                           |            |         |             | X              |

March 16, 2021

Motus GI Holdings, Inc.  
1301 East Broward Boulevard, 3rd Floor  
Ft. Lauderdale, FL

Ladies and Gentlemen:

We have acted as counsel for Motus GI Holdings, Inc., a Delaware corporation (the "Company"), in connection with the Company's Registration Statement on Form S-3 (the "Registration Statement") under the Securities Act of 1933, as amended (the "Securities Act"). The Registration Statement relates to the offer and sale by the selling stockholder identified therein of up to 6,000,000 shares of the Company's common stock, par value \$0.0001 per share (the "Common Stock"). Such shares of Common Stock consist of 6,000,000 shares of Common Stock (the "Warrant Shares") issuable upon exercise of certain warrants to purchase Common Stock (the "Warrants") named in the Registration Statement, which are currently issued and outstanding.

In connection with rendering this opinion, we have examined the Certificate of Incorporation, as amended, and the Bylaws of the Company, the forms of the Warrants and such other corporate records, agreements, documents and instruments, and such certificates or comparable documents of public officials and of officers and representatives of the Company, and we have made such inquiries of such officers and representatives, as we have deemed necessary or appropriate for the purposes of this opinion.

In such examination, we have assumed the genuineness of all signatures, the legal capacity of all natural persons, the authenticity of all documents submitted to us as originals, the conformity of original documents of all documents submitted to us as certified, conformed or photostatic copies and the authenticity of the originals of such latter documents. As to all questions of fact material to these opinions that have not been independently established, we have relied upon certificates or comparable documents of officers and representatives of the Company.

Based on the foregoing, and subject to the qualifications stated herein, we are of the opinion that, when issued in accordance with the terms of the respective Warrants, the Warrant Shares will be duly authorized, validly issued, fully paid and non-assessable.

The opinions expressed herein are limited to the corporate laws of the State of Delaware, and we express no opinion as to the effect on the matters covered by this letter of the laws of any other jurisdiction.

We hereby consent to the filing of a copy of this opinion letter as an exhibit to the Registration Statement. In giving such consent, we do not thereby admit that we are in the category of persons whose consent is required under Section 7 of the Act.

Very truly yours,

/s/ Lowenstein Sandler LLP  
Lowenstein Sandler LLP

**CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**

We consent to the incorporation by reference in this Registration Statement of Motus GI Holdings, Inc. on Form S-3 to be filed on or about March 16, 2021 of our report dated March 16, 2021, on our audits of the consolidated financial statements as of December 31, 2020 and 2019 and for each of the years then ended, which report was included in the Annual Report on Form 10-K filed March 16, 2021. Our report includes an explanatory paragraph about the existence of substantial doubt concerning the Company's ability to continue as a going concern. We also consent to the reference to our firm under the caption "Experts" in this Registration Statement.

/s/ EisnerAmper LLP

EISNERAMPER LLP  
Philadelphia, PA  
March 16, 2021