Registration No. 333-266107

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

Amendment No. 2 to

FORM S-1

REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933

HELIUS MEDICAL TECHNOLOGIES, INC. (Exact name of Registrant as specified in its charter)

Delaware

(State or other jurisdiction of incorporation or organization)

3845 (Primary Standard Industrial Classification Code Number) **36-4787690** (I.R.S. Employer Identification Number)

642 Newtown Yardley Road, Suite 100 Newtown, Pennsylvania 18940 (215) 944-6100

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

Dane C. Andreeff President and Chief Executive Officer Helius Medical Technologies, Inc. 642 Newtown Yardley Road, Suite 100 Newtown, Pennsylvania 18940 (215) 944-6100

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

Copies to:

Phillip D. Torrence, Esq. Honigman LLP 650 Trade Centre Way, Suite 200 Kalamazoo, Michigan 49002 (269) 337-7700 Charles Phillips, Esq. Ellenoff Grossman & Schole LLP 1345 Avenue of the Americas New York, NY 10105-0302 (212) 370-1300

Approximate date of commencement of proposed sale to the public: As soon as practicable after the effective date of this Registration Statement.

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 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, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. \Box

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. \Box

If this Form is a post-effective amendment filed pursuant to Rule 462(d) 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. \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 \Box Non-accelerated filer \boxtimes Accelerated filer Smaller reporting company Emerging growth company \times

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. \Box

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 hereafter become effective in accordance with Section 8(a) of the Securities Act of 1933 or until the Registration Statement shall become effective on such date as the Commission, acting pursuant to said Section 8(a), may determine.

The information in this preliminary 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 preliminary prospectus is not an offer to sell these securities and it is not soliciting an offer to buy these securities in any jurisdiction where the offer or sale is not permitted.

SUBJECT TO COMPLETION, DATED AUGUST 4, 2022

PRELIMINARY PROSPECTUS



HELIUS MEDICAL TECHNOLOGIES, INC.

Up to 9,493,671 Shares of Common Stock Warrants to Purchase up to 14,240,507 Shares of Common Stock Pre-Funded Warrants to Purchase up to 9,493,671 Shares of Common Stock

This is a best efforts public offering of up to 9,493,671 shares of our Class A common stock, par value \$0.001 per share ("common stock") and warrants to purchase up to 14,240,507 shares of our common stock (which we refer to as "Public Warrants") at an assumed combined public offering price of \$1.58 per share of common stock and accompanying 1.5 Public Warrants. Each Public Warrant is issuance.

We are also offering to those purchasers, if any, whose purchase of common stock in this offering would otherwise result in any such purchaser, together with its affiliates, beneficially owning more than 4.99% (or, at the election of such purchaser, 9.99%) of our outstanding common stock immediately following the consummation of this offering, the opportunity to purchase pre-funded warrants in lieu of shares of our common stock that would otherwise result in such purchaser's beneficial ownership exceeding 4.99% (or, at the election of such purchaser, 9.99%) of our outstanding common stock. The purchaser for each pre-funded warrant will equal the per share public offering price for the common stock in this offering less the \$0.001 per share exercise price of each such pre-funded warrant. Each pre-funded warrant will be exercisable upon issuance and will not expire prior to exercise. For each pre-funded warrant we sell, the number of shares of common stock we are offering will be decreased on a one-for-one basis.

Our common stock is quoted for trading on the Nasdaq Capital Market ("Nasdaq") under the symbol "HSDT". On August 3, 2022, the last reported sales price for our common stock was \$1.58 per share. The actual public offering price per share and accompanying Public Warrant will be determined between us, the Placement Agent and the investors in the offering, and may be at a discount to the current market price of our common stock. Therefore, the assumed public offering price used throughout this prospectus may not be indicative of the final public offering price. We do not intend to apply for listing of the Public Warrants or pre-funded warrants on any national securities exchange or trading system. Without an active trading market, the liquidity of the Public Warrants and pre-funded warrants will be limited.

An investment in our common stock and warrants involves a high degree of risk. Before buying any securities you should carefully read the discussion of the material risks of investing in our common stock and warrants in "Risk Factors" beginning on page 9 of this prospectus.

We have engaged Roth Capital Partners, LLC as our exclusive placement agent ("Roth" or the "Placement Agent") to use its reasonable best efforts to solicit offers to purchase our securities in this offering. The Placement Agent has no obligation to purchase any of the securities from us or to arrange for the purchase or sale of any specific number or dollar amount of the securities. Because there is no minimum offering amount required as a condition to closing in this offering the actual public amount, Placement Agent's fee, and proceeds to us, if any, are not presently determinable and may be substantially less than the total maximum offering amounts set forth above and throughout this prospectus. We have agreed to pay the Placement Agent the Placement Agent fees set forth in the table below and to provide certain other compensation to the Placement Agent. See "Plan of Distribution" beginning on page <u>21</u> of this prospectus for more information regarding these arrangements.

Neither the Securities and Exchange Commission nor any other state securities commission has approved or disapproved of these securities or passed upon the accuracy or adequacy of this prospectus. Any representation to the contrary is a criminal offense.

	Per Share and related Public Warrant(2)	Per Pre-Funded Warrant and related Public Warrant(2)	Total
Public offering price	\$	\$	\$
Placement Agent fees(1)	\$	\$	\$
Proceeds to us before offering expenses(3)	\$	\$	\$

(1) We have agreed to reimburse the Placement Agent for certain expenses. See "Plan of Distribution" on page <u>21</u> of this prospectus for a description of these arrangements.

(2) The public offering price and Placement Agent fee corresponds to (x)(i) a public offering price per share of \$ and (ii) a public offering price per Public Warrant of \$, and (y)(i) a public offering price per pre-funded warrant of \$ and (ii) a public offering price per Public Warrant of \$.

- (3) We estimate the total expenses of this offering will be approximately \$
- We expect to deliver our shares, Public Warrants and pre-funded warrants, if any, to purchasers in the offering on or about 2022.

Roth Capital Partners

Prospectus dated [•], 2022.

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ABOUT THIS PROSPECTUS

This prospectus is part of a registration statement that we filed with the Securities and Exchange Commission, or the SEC. Before making your investment decision, we urge you to carefully read this prospectus and all of the information contained in the documents incorporated by reference in this prospectus, as well as the additional information described under the headings "Where You Can Find More Information" and "Incorporation of Certain Documents by Reference."

To the extent there is a conflict between the information contained in this prospectus, on the one hand, and the information contained in any document incorporated by reference in this prospectus, on the other hand, you should rely on the information in this prospectus, provided that if any statement in one of these documents is inconsistent with a statement in another document having a later date – for example, a document incorporated by reference in this prospectus – the statement in the document having the later date modifies or supersedes the earlier statement.

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 agreement, 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 does not constitute an offer to sell or the solicitation of an offer to buy any securities other than the securities described in this prospectus or an offer to sell or the solicitation of an offer to buy such securities in any circumstances in which such offer or solicitation is unlawful. The securities offered under this prospectus are not being offered or sold to any person resident in Canada or to any person acquiring such securities for the benefit of any person resident in Canada. Any securities distributed under this prospectus may not be resold to any person resident in Canada, to any person acquiring such securities for the benefit in Canada or on any marketplace in Canada. You should assume that the information appearing in this prospectus, the documents incorporated by reference and any related free writing prospectus is accurate only as of their respective dates. Our business, financial condition, results of operations and prospects may have changed materially since those dates.

PROSPECTUS SUMMARY

This summary highlights information contained elsewhere in this prospectus and does not contain all of the information that you should consider in making your investment decision. Before deciding to invest in our securities, you should read this entire prospectus and the documents incorporated by reference herein and therein carefully, including our financial statements and related notes, the information in the section "Risk Factors," and "Where You Can Find More Information." Unless otherwise specified or the context otherwise requires, references in this prospectus to the "Company," "Helius," "Registrant," "we," "us," and "our" refer to Helius Medical Technologies, Inc. and its wholly owned subsidiaries, Helius Medical, Inc., or HMI, Helius Medical Technologies (Canada), Inc., Helius Canada Acquisition Ltd., and Helius NeuroRehab, Inc.

All trademarks or trade names referred to in this prospectus are the property of their respective owners. Solely for convenience, the trademarks and trade names in this prospectus are referred to without the [®] and TM 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.

Company Overview

We are a neurotechnology company focused on neurological wellness. Our purpose is to develop, license or acquire non-implanted technologies targeted at reducing symptoms of neurological disease or trauma.

Our product, known as the Portable Neuromodulation Stimulator, or PoNS[®], is an innovative nonimplanted medical device, inclusive of a controller and mouthpiece, which delivers mild electrical stimulation to the surface of the tongue to provide treatment of gait deficit and chronic balance deficit. PoNS has marketing clearance in the U.S. for use in the U.S. as a short term treatment of gait deficit due to mild-to-moderate symptoms for multiple sclerosis, or MS, and is to be used as an adjunct to a supervised therapeutic exercise program in patients 22 years of age and over by prescription only. We began accepting prescriptions for PoNS in the U.S. in March 2022, and commercial sales of PoNS commenced in April 2022. PoNS is authorized for sale in Canada for two indications: (i) for use as a short term treatment (14 weeks) of chronic balance deficit due to mild-to-moderate traumatic brain injury, or mmTBI, and is to be used in conjunction with physical therapy, or PoNS TherapyTM; and (ii) for use as a short term treatment (14 weeks) of gait deficit due to mild and moderate symptoms from MS and it is to be used in conjunction with physical therapy. It has been commercially available in Canada since March 2019. PoNS is authorized for sale as a Class IIa medical device in Australia and we are currently seeking a business partner to commercialize and distribute PoNS in Australia.

Corporate History

NeuroHabilitation Corporation, or NHC, a Delaware corporation, was incorporated on January 22, 2013. In January 2013, HMI entered into an exclusive rights agreement whereby Advanced Neuro-Rehabilitation LLC, or ANR, granted NHC exclusive worldwide rights to ANR's trade secrets, knowhow and patent pending technology for a non-invasive means for delivering neurostimulation through the oral cavity, in exchange for a 50% equity investment in NHC and a 4% royalty of NHC's revenue collected from (a) the U.S. sales of products covered by any claim of the patent pending rights to end users and (b) services related to the therapy or use of such products in therapy services.

On June 13, 2014, we acquired a 100% interest in NHC pursuant to a plan of merger whereby our wholly-owned subsidiary was merged with and into NHC and all of the common shares in the capital of NHC were cancelled in consideration for the issuance of an aggregate of 201,714 shares of our common stock to the shareholders of NHC. NHC, which changed its name to Helius Medical, Inc. in December 2018, is now our wholly-owned subsidiary. Prior to the transaction we had no active business.

On January 31, 2019, we formed another wholly owned subsidiary, Helius NeuroRehab, Inc., a Delaware corporation. On October 10, 2019, we formed Helius Canada Acquisition Ltd., a company incorporated under the federal laws of Canada and a wholly owned subsidiary of Helius Medical Technologies

(Canada), Inc., a company incorporated under the federal laws of Canada, which acquired Heuro Canada, Inc. from Health Tech Connex Inc. on October 30, 2019.

Recent Developments

In June 2022, we announced the launch of our Patient Therapy Access Program, which provides qualifying patients access to on-label PoNS Therapy at a significantly reduced price.

Potential Private Placement

We and each of our officers and directors as of the date of this prospectus have agreed with the Placement Agent to be subject to a lock-up period of ninety (90) days following the date of closing of the offering pursuant to this prospectus, except that we are permitted to enter into a potential private placement of Common Stock and warrants to purchase Common Stock by us of up to \$2.000.000, at a price equal to the higher of (i) the per share purchase price in this offering and (ii) a price equal to 90% of the closing price of the Common Stock on the closing date of the offering. We have not entered into any agreement to enter into a private placement and there is no guarantee that such transaction will occur.

Corporate Information

Our principal executive offices are located at 642 Newtown Yardley Road, Suite 100, Newtown, PA 18940 and our telephone number is 215-944-6100. We maintain a corporate website at www.heliusmedical.com. We make available free of charge through our Internet website our annual reports on Form 10-K, quarterly reports on Form 10-Q and current reports on Form 8-K, and any amendments to these reports, as soon as reasonably practicable after we electronically file such material with, or furnish such material to the SEC. We are not including the information on our website as a part of, nor incorporating it by reference into, this prospectus or the registration statement of which it forms a part. Additionally, the SEC maintains a website that contains annual, quarterly, and current reports, proxy statements, and other information that issuers (including us) file electronically with the SEC. The SEC's website address is http://www.sec.gov.

	THE OFFERING
Issuer	Helius Medical Technologies, Inc.
Common Stock Offered	Up to 9,493,671 Shares
Public Warrants Offered	Warrants to purchase up to 14,240,507 shares of our common stock, which will be exercisable during the period commencing on the date of their issuance and ending five years from such date at an exercise price o \$ per share of common stock.
Pre-funded Warrants Offered	We are also offering to certain purchasers whose purchase of our common stock in this offering would otherwise result in the purchaser, together with its affiliates, beneficially owning more than 4.99% (or, at the election of the purchaser, 9.99%) of our outstandin shares of common stock immediately following the consummation of this offering, the opportunity to purchase pre-funded warrants (together with the Public Warrants, the "Warrants") in lieu of common stock tha would otherwise result in any such purchaser's beneficial ownership exceeding 4.99% (or, at the election of the purchaser, 9.99%) of our outstanding shares of common stock. Each pre-funded warrant will be exercisable for one share of common stock. The purchase price of each pre-funded warrant and the accompanying Public Warrant will equal the price at which the common stock and the accompanying Public Warrant are being sold to the public in this offering, minus \$0.001, and the exercise price of each pre-funded warrant will be \$0.001 per share. The pre-funded warrant will be \$0.001 per share. The pre-funded warrants will be exercisable immediately and may be exercised at any time until exercised in full. For each pre-funded warrant we sell, the number of shares of common stock we are offering will be decreased on a one-for-one basis. Because we will issue one Public Warrant for each share of common stock and for each pre-funded warrant to purchase one share of common stock sold in this offering, the number of Public Warrants sold in this offering will not change as a resu of a change in the mix of the shares of our common stock and pre-funded warrants sold.
Public Offering price	\$1.58 per share of Common Stock and accompanying 1.5 Public Warrants, or \$1.579 per pre-funded warrant and accompanying 1.5 Public Warrants, as applicable.
Common stock outstanding after this	
offering(1)	13,288,468 shares (assuming we sell only shares of common stock and no pre-funded warrants, and none of the Public Warrants issued in this offering are exercised).
Use of proceeds	We estimate that we will receive net proceeds from thi offering of approximately \$13.6 million based upon an assumed public offering price of \$1.58 per share of Common Stock and accompanying 1.5 Public Warrants or \$1.579 pre-funded warrant and accompanying 1.5

	Public Warrants, as applicable, after deducting Placement Agent fees and estimated offering expenses payable by us. We currently intend to use the net proceeds we receive from this offering for funding operations, working capital and general corporate purposes. Because this is a best efforts offering with no minimum amount as a condition to closing, we may not sell all or any of the securities offered hereby. As a result, we may receive significantly less in net proceeds than we currently estimate. See "Use of Proceeds" on page <u>12</u> .			
Risk Factors	You should carefully read the "Risk Factors" section of this prospectus beginning on page $\underline{9}$ and the documents incorporated by reference herein for a discussion of factors that you should consider before deciding to invest in our securities.			
Potential Private Placement	We and each of our officers and directors as of the date of this prospectus have agreed with the Placement Agent to be subject to a lock-up period of ninety (90) days following the date of closing of the offering pursuant to this prospectus, except that we are permitted to enter into a potential private placement of Common Stock and warrants to purchase Common Stock by us of up to \$2,000,000, at a price equal to the higher of (i) the per share purchase price in this offering and (ii) a price equal to 90% of the closing price of the Common Stock on the closing date of the offering. We have not entered into any agreement to enter into a private placement and there is no guarantee that such transaction will occur.			
Trading Symbol and Listing	Our common stock is listed on the Nasdaq Capital Market under the symbol "HSDT". We do not intend to apply for listing of the Public Warrants or pre-funded warrants on any national securities exchange or trading system. Without a trading market, the liquidity of the Public Warrants or pre-funded warrants will be extremely limited.			
 (1) Except as otherwise indicated, all information in this prospectus is based on 3,794,797 shares of common stock outstanding as of March 31, 2022 and excludes the shares of common stock being offered by this prospectus and issuable upon exercise of the Warrants and also excludes the following: 				
 785,228 shares of common stock issu March 31, 2022, at a weighted-average 	able upon the exercise of stock options outstanding as of ge exercise price of \$31.77 per share;			
 593,924 shares of common stock issuable upon the exercise of warrants (excluding the Warrants issued in the offering) outstanding as of March 31, 2022, at a weighted-average exercise price o \$16.32; 				
 8,595 shares of common stock reserve Plan as of March 31, 2022; 	ed for future issuance under our 2018 Omnibus Incentive			
• an aggregate 775 shares of unvested r	estricted stock units granted prior to March 31, 2022;			
 391,363 shares issued to Lincoln Park 	c Capital Fund, LLC after March 31, 2022;			

- 52,000 shares of common stock reserved for future issuance under our 2021 Inducement Plan as of March 31, 2022; and
- 179,864 shares of common stock reserved for future issuance under our 2022 Equity Incentive Plan.

Unless otherwise indicated, all information in this prospectus assumes no exercise of the outstanding options or warrants described above.

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	SUMMARY RISK FACTORS
Our b others:	usiness is subject to a number of risks. The principal factors and uncertainties include, among
•	We have a history of losses and may not achieve or sustain profitability in the future;
•	We will require additional financing to carry out our plan of operations, and failure to obtain such financing may cause our business to fail;
•	We currently only have one product, the PoNS device, which is authorized for commercial distribution in Canada, Australia, and in the U.S. for treatment of MS, and we have not obtained authorization to distribute the PoNS device commercially in Europe or in the U.S. for other indications and may never obtain such authorizations;
•	We may encounter substantial delays in planned clinical trials, and planned clinical trials may fail to demonstrate the safety and efficacy of the PoNS device to the satisfaction of regulatory authorities;
•	Generation of revenue related to the PoNS technology is dependent on the PoNS Therapy being prescribed by physicians in the U.S. and our ability to train physical therapists in the supervision of the use of the PoNS Therapy;
•	Market awareness of the PoNS device is limited, and the neuromodulation market is new and uncertain;
•	We are dependent on third-party scientists and research institutions, in part, for research and development and on third parties for the manufacture and distribution of our product;
•	The COVID-19 pandemic and outbreaks of communicable diseases may continue to materially and adversely affect our business, financial condition and results of operations;
•	Third parties may gain access to our technology if our intellectual property protection is insufficient;
•	We may be subject to various litigation claims and legal proceedings, including intellectual property litigation, which may adversely affect our business;
•	Failure to secure contracts with workers' compensation and third-party administrators or rehabilitation clinics could have a negative impact on our sales and would have a material adverse effect on our business, financial condition and operating results;
•	Failure to obtain a reimbursement code from the U.S. Department of Health and Human Services so that the PoNS device is covered by Medicare and Medicaid could have a negative impact on our intended sales and would have a material adverse effect on our business, financial condition and operating results;
•	If we fail to comply with healthcare laws, we could face substantial penalties and financial exposure;
•	We face ongoing government scrutiny and regulation in connection with the development of product candidates and following marketing authorization;
•	After commercialization, a product recall or the discovery of serious safety issues with our products could have a significant adverse impact on us;
•	We have been the victim of a cyber-related crime, and our controls may not be successful in avoiding future cyber-related crimes;
•	We are reliant on third-party, single-sourced contract manufacturing, exposing us to risks that could delay our sales or result in higher costs or lost product revenues;
•	The market price of our common stock may be highly volatile, and you could lose all or part of your investment;

• This offering could cause our stock price to fall, which could result in being delisted from The Nasdaq Capital Market; and • This is a best efforts offering, no minimum amount of securities is required to be sold, and we may not raise the amount of capital we believe is required for our business plans.

RISK FACTORS

An investment in our securities has a high degree of risk. Before you invest you should carefully consider the risks and uncertainties described below and in the "Risk Factors" section of our <u>Annual</u> <u>Report on Form 10-K for the year ended December 31, 2021</u> and the <u>Quarterly Report on Form 10-Q for</u> the quarterly period ended March 31, 2022, each of which is incorporated by reference herein, and the other information in this prospectus. Any of the risks and uncertainties set forth herein and therein could materially and adversely affect our business, results of operations and financial condition, which in turn could materially and adversely affect the trading price or value of our securities. Additional risks not currently known to us or which we consider immaterial based on information currently available to us may also materially adversely affect us. As a result, you could lose all or part of your investment.

Risks Related to the Offering

Because our management will have broad discretion and flexibility in how the net proceeds from this offering are used, our management may use the net proceeds in ways with which you disagree or which may not prove effective.

We currently intend to use the net proceeds from this offering as discussed under "Use of Proceeds" in this prospectus. We have not allocated specific amounts of the net proceeds from this offering for any of the foregoing purposes. Accordingly, our management will have significant discretion and flexibility in applying the net proceeds of this offering. You will be relying on the judgment of our management with regard to the use of these net proceeds, and you will not have the opportunity, as part of your investment decision, to assess whether the net proceeds are being used appropriately. It is possible that the net proceeds will be invested in a way that does not yield a favorable, or any, return for us. The failure of our management to use such funds effectively could have a material adverse effect on our business, financial condition, operating results and cash flow.

There is substantial doubt about our ability to continue as a going concern.

Even if this offering is successful, we will need additional funding to continue our operations. If we are unable to raise capital when needed, we could be forced to delay, reduce, or eliminate our portions of our business strategy, or cease our operations entirely.

There is no market for our Public Warrants or pre-funded warrants.

The public offering price for the securities will be determined by negotiations between us, the Placement Agent and prospective investors, and may not be indicative of prices that will prevail in the trading market. We do not intend to apply to list the Public Warrants or pre-funded warrants on the Nasdaq Capital Market or any nationally recognized trading system, and accordingly, there will be no trading market for such Warrants. In the absence of an active public trading market:

- you may not be able to resell your securities at or above the public offering price;
- the market price of our common stock may experience more price volatility; and
- there may be less efficiency in carrying out your purchase and sale orders.

The market price of our common stock may be highly volatile, and you could lose all or part of your investment.

The trading price of our common stock has been and is likely to continue to be volatile. This volatility may prevent you from being able to sell your securities at or above the price you paid for your securities. Our stock price could be subject to wide fluctuations in response to a variety of factors, which include:

- whether we achieve our anticipated corporate objectives;
- termination of the lock-up agreement or other restrictions on the ability of our stockholders and other security holders to sell shares after this offering; and
- · general economic or political conditions in the United States or elsewhere.

In addition, the stock market in general, and the stock of biotechnology companies in particular, have experienced extreme price and volume fluctuations that have often been unrelated or disproportionate to the operating performance of these companies. Broad market and industry factors may negatively affect the market price of our common stock, regardless of our actual operating performance.

This offering could cause our stock price to fall, which could result in being delisted from The Nasdaq Capital Market.

Our common stock is currently listed on The Nasdaq Capital Market. In order to maintain that listing, we must satisfy minimum financial and other continued listing requirements and standards, including maintaining a minimum share price. If the price of our common stock falls as a result of this offering, there can be no assurances that we will be able to comply with the applicable listing requirements.

If we fail to satisfy the continued listing requirements of Nasdaq, such as the minimum share price requirement, Nasdaq may take steps to delist our securities. Such a delisting would likely have a negative effect on the price of our common stock and would impair your ability to sell or purchase our common stock when you wish to do so. In the event of a delisting, we would take actions to restore our compliance with Nasdaq's listing requirements, but we can provide no assurance that any such action taken by us would allow our common stock to become listed again, stabilize the market price or improve the liquidity of our securities, prevent our common stock from dropping below the Nasdaq minimum share price requirement or prevent future non-compliance with Nasdaq's listing requirements.

Public Warrants are speculative in nature.

The Public Warrants offered pursuant to this prospectus do not confer any rights of common stock ownership on their holders, such as voting rights or the right to receive dividends, but rather merely represent the right to acquire shares of our common stock at a fixed price for a limited period of time. Specifically, commencing on the date of issuance, holders of the Public Warrants may exercise their right to acquire the common stock and pay an exercise price of \$, prior to five years from the date of issuance, after which date any unexercised Public Warrants will expire and have no further value. Moreover, following this offering, the market value of the Public Warrants is uncertain and there can be no assurance that the market value of the Public Warrants will ever equal or exceed their public offering price. There can be no assurance that the market price of the common stock will ever equal or exceed the exercise price of the Public Warrants to exercise those warrants.

This is a best efforts offering, no minimum amount of securities is required to be sold, and we may not raise the amount of capital we believe is required for our business plans.

The Placement Agent has agreed to use its reasonable best efforts to solicit offers to purchase the securities being offered in this offering. The Placement Agent has no obligation to buy any of the securities from us or to arrange for the purchase or sale of any specific number or dollar amount of the securities. There is no required minimum number of securities or amount of proceeds that must be sold as a condition to completion of this offering. Because there is no minimum offering amount required as a condition to the closing of this offering, the actual offering amount, Placement Agent fees and proceeds to us are not presently determinable and may be substantially less than the maximum amounts set forth above. We may sell fewer than all of the securities offered hereby, which may significantly reduce the amount of proceeds received by us, and investors in this offering will not receive a refund in the event that we do not sell an amount of securities sufficient to fund for our operations as described in the "*Use of Proceeds*" section herein. Thus, we may not raise the amount of capital we believe is required for our operations in the short-term and may need to raise additional funds, which may not be available or available on terms acceptable to us.

CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS AND INDUSTRY DATA

This prospectus, including the documents that we incorporate by reference, contain forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended (the "Securities Act") and Section 21E of the Securities Exchange Act of 1934, as amended (the "Exchange Act"). Any statements about our expectations, beliefs, plans, objectives, assumptions or future events or performance are not historical facts and may be forward-looking. These statements are often, but are not always, made through the use of words or phrases such as "may," "will," "should," "could," "anticipates," "estimates," "plans," "projects," "potential," "continuing," "ongoing," "expects," "believes," "intends," "targets," "predicts," and similar words or phrases. Accordingly, these statements involve estimates, assumptions and uncertainties which could cause actual results to differ materially from those expressed in them.

The forward-looking statements included or incorporated by reference in this prospectus include but are not limited to statements relating to: our future growth and operational progress, including commercial activities for the PoNS device, the COVID-19 pandemic, including its impact on the Company, clinical development plans, product development activities, plans for U.S. Food and Drug Administration, or FDA, filings and their subsequent approvals, other foreign or domestic regulatory filings, the safety and effectiveness of our product, our market awareness, our ability to compete effectively, the ability and limitation of our manufacturing source(s), our distribution network, the adequacy of our intellectual property protection, our future patent approvals, our future expenses and cash flow, our ability to become profitable, our future financing arrangements, our ability to continue as a going concern, any future stock price, our ability to build commercial infrastructure, and our ability to receive reimbursement coverage under Medicare, Medicaid or under other insurance plans.

Such forward-looking statements are necessarily based upon a number of estimates and assumptions that, while considered reasonable by Helius, are inherently subject to significant business, economic, competitive political and social uncertainties and contingencies. The factors and assumptions used by our management to develop such forward-looking statements include, but are not limited to, uncertainties associated with our capital requirements to achieve its business objectives, the impact of the COVID-19 pandemic, our ability to train physical therapists in the supervision of the use of the PoNS Therapy, our ability to secure contracts with rehabilitation clinics, our ability to obtain national Medicare coverage and to obtain a reimbursement code so that the PoNS device is covered by Medicare and Medicaid, our ability to build internal commercial infrastructure, secure state distribution licenses, build a commercial team and build relationships with key opinion leaders, neurology experts and neurorehabilitation centers, market awareness of the PoNS device, future clinical trials and the clinical development process, manufacturing and supply chain risks, the product development process and FDA regulatory submission review and approval process, other development activities, ongoing government regulation and other factors included in the sections entitled "*Risk Factors*" in this prospectus and in the documents incorporated herein by reference.

Although we believe the expectations expressed in such forward-looking statements are based on reasonable assumptions at the time they were made, they are subject to risks and uncertainties, known and unknown, which could cause actual results and developments to differ materially from those expressed or implied in such statements. Forward-looking statements are not guarantees of future performance and actual results may differ significantly from such forward-looking statements.

You should carefully read this prospectus, any prospectus supplement and any related free writing prospectus and with the understanding that our actual future results may materially differ from what we expect.

Except as required by law, forward-looking statements speak only as of the date they are made, and we assume no obligation to update any forward-looking statements publicly, or to update the reasons why actual results could differ materially from those anticipated in any forward-looking statements, even if new information becomes available.

USE OF PROCEEDS

We estimate that the net proceeds from this offering will be approximately \$13.6 million based on an assumed public offering price of \$1.58 per share of common stock and accompanying 1.5 Public Warrants, after deducting estimated Placement Agent fees and estimated offering expenses payable by us and excluding the proceeds, if any, from the exercise of the Public Warrants issued in this offering. However, because this is a best efforts offering and there is no minimum offering amount required as a condition to the closing of this offering, the actual offering amount, Placement Agent's fees and net proceeds to us are not presently determinable and may be substantially less than the maximum amounts set forth on the cover page of this prospectus.

We currently intend to use the net proceeds from this offering for funding operations, working capital and general corporate purposes. We may use a portion of the net proceeds for the acquisitions of businesses, products, technologies or licenses that are complementary to our business, although we have no present commitments or agreements to do so.

The allocation of the net proceeds of the offering represents our estimates based upon our current plans and assumptions regarding industry and general economic conditions, our future revenues and expenditures.

The amounts and timing of our actual expenditures may vary significantly and will depend on numerous factors, including market conditions, cash generated or used by our operations, business developments and opportunities that may arise and related rate of growth. We may find it necessary or advisable to use portions of the proceeds from this offering for other purposes.

Circumstances that may give rise to a change in the use of proceeds and the alternate purposes for which the proceeds may be used include:

- the existence of other opportunities or the need to take advantage of changes in timing of our existing activities;
- the need or desire on our part to accelerate, increase or eliminate existing initiatives due to, among other things, changing market conditions and competitive developments; and/or
- if strategic opportunities present themselves (including acquisitions, joint ventures, licensing and other similar transactions).

From time to time, we evaluate these factors and other factors and we anticipate continuing to make such evaluations to determine if the existing allocation of resources, including the proceeds of this offering, is being optimized. Pending the application of the net proceeds as described above, we will hold the net proceeds from this offering in short-term, interest-bearing, securities.

We believe that the net proceeds of this offering, together with cash on hand, will be sufficient to fund our operations throughout the third quarter of 2023, assuming we sell all of the securities being offered hereby, and we believe that we will need to raise additional capital to fund our operations thereafter. Additional capital may not be available on terms favorable to us, or at all. If we raise additional funds by issuing equity securities, our stockholders may experience dilution. Debt financing, if available, may involve restrictive covenants or additional security interests in our assets. Any additional debt or equity financing that we complete may contain terms that are not favorable to us or our stockholders. If we raise additional funds through collaboration and licensing arrangements with third parties, it may be necessary to relinquish some rights to our technologies or products or grant licenses on terms that are not favorable to us. If we are unable to raise adequate funds, we may have to delay, reduce the scope of, or eliminate some or all of, our development programs or liquidate some or all of our assets.



CAPITALIZATION

The following table sets forth our cash and cash equivalents, debt obligations, and capitalization as of March 31, 2022 (i) on an actual basis, and (ii) on a pro forma as adjusted basis to give effect to the issuance and sale of shares of our common stock and Public Warrants in this offering at a combined assumed public offering price of \$1.58 per share and accompanying 1.5 Public Warrants, for total net proceeds of approximately \$13,625,000 (assuming no sale of pre-funded warrants).

	As of March 31, 2022 (in thousands)			
	1	Actual	P	ro Forma
Cash	\$	6,310	\$	19,935
Stockholders' (deficit) equity:				
Preferred Stock, \$0.001 par value; 10,000,000 shares authorized; no shares issued and outstanding as of March 31, 2022		_		
Class A common stock, \$0.001 par value, 150,000,000 shares authorized; 3,794,797 shares issued and outstanding as of March 31, 2022		4		17
Additional paid-in capital	1	49,834		163,446
Accumulated other comprehensive loss		(1,327)		(1,327)
Accumulated deficit	(1	141,381)	(141,381)
Total stockholders' equity	\$	7,130	\$	20,755

The foregoing pro forma as adjusted information is illustrative only, and our capitalization following the completion of this offering will be adjusted based on the actual public offering price and other terms of this offering determined at pricing.

The above discussion and table is based on 3,794,797 shares of common stock outstanding on March 31, 2022, and excludes the shares of common stock issuable upon exercise of the Warrants being offered by this prospectus and also excludes the following as of that date:

- 785,228 shares of common stock issuable upon the exercise of stock options outstanding as of March 31, 2022, at a weighted-average exercise price of \$31.77 per share;
- 593,924 shares of common stock issuable upon the exercise of warrants outstanding as of March 31, 2022, at a weighted-average exercise price of \$16.32;
- 8,595 shares of common stock reserved for future issuance under our 2018 Omnibus Incentive Plan as of March 31, 2022;
- an aggregate 775 shares of unvested restricted stock units granted prior to March 31, 2022;
- 391,363 shares issued to Lincoln Park Capital Fund, LLC after March 31, 2022;
- 52,000 shares of common stock reserved for future issuance under our 2021 Inducement Plan as of March 31, 2022; and
- 179,864 shares of common stock reserved for future issuance under our 2022 Equity Incentive Plan.

DILUTION

A purchaser of our securities in this offering will be diluted to the extent of the difference between the price you pay for each share of our common stock and the net tangible book value per share of our common stock after this offering. Net tangible book value per share prior to this offering is equal to our total tangible assets minus total liabilities, all divided by 3,794,797 shares of common stock outstanding at March 31, 2022. Our historical net tangible book value as of March 31, 2022 was approximately \$6.1 million, or \$1.60 per share of our common stock. As of March 31, 2022, our pro forma net tangible book value was \$19.7 million, or \$1.48 per share.

Pro forma as adjusted net tangible book value is our pro forma net tangible book value, plus the effect of the sale of our securities in this offering at the assumed public offering price of \$1.58 per share of common stock (or pre-funded warrant) and accompanying Public Warrant and after deducting the Placement Agent fees and commissions and other estimated offering expenses payable by us. Our pro forma as adjusted net tangible book value as of March 31, 2022 would have been approximately \$19.7 million, or \$1.48 per share.

The following table illustrates this per share dilution:

Assumed public offering price per share (attributing no value to the Warrants)	\$ 1.58
Net tangible book value per share as of March 31, 2022	\$ 1.60
Decrease in pro forma net tangible book value per share after this offering	\$(0.12)
Pro forma net tangible book value per share after giving effect to this offering	\$ 1.48
Dilution in pro forma net tangible book value per share to new investors	\$(0.10)

The information above is illustrative only and will change based on actual pricing and other terms of this offering determined at pricing.

Each \$0.50 increase (decrease) in the public offering price of \$1.58 per share and accompanying Public Warrant would increase (decrease) the pro forma as adjusted net tangible book value per share by \$0.33, assuming the number of shares of common stock offered by us, as set forth on the cover page of this prospectus, remains the same and after deducting the Placement Agent fees and commissions and estimated offering expenses payable by us.

The foregoing discussion and table do not take into account further dilution to new investors that could occur upon the exercise of outstanding warrants having a per share exercise or conversion price less than the per share offering price to the public in this offering.

The above discussion and table are based on 3,794,797 shares of common stock outstanding as of March 31, 2022 and excludes the shares of common stock issuable upon exercise of the Warrants being offered by this prospectus and also excludes the following as of that date:

- 785,228 shares of common stock issuable upon the exercise of stock options outstanding as of March 31, 2022, at a weighted-average exercise price of \$31.77 per share;
- 593,924 shares of common stock issuable upon the exercise of warrants outstanding as of March 31, 2022, at a weighted-average exercise price of \$16.32;
- 8,595 shares of common stock reserved for future issuance under our 2018 Omnibus Incentive Plan as of March 31, 2022;
- an aggregate 775 shares of unvested restricted stock units granted prior to March 31, 2022;
- 391,363 shares issued to Lincoln Park Capital Fund, LLC after March 31, 2022;
- 52,000 shares of common stock reserved for future issuance under our 2021 Inducement Plan as of March 31, 2022; and
- 179,864 shares of common stock reserved for future issuance under our 2022 Equity Incentive Plan.



To the extent that outstanding options or warrants are converted or exercised, you could experience further dilution. In addition, we may choose to raise additional capital due to market conditions or strategic considerations even if we believe we have sufficient funds for our current or future operating plans. To the extent that additional capital is raised through the sale of additional equity, the issuance of these shares could result in further dilution to our stockholders.

DIVIDEND POLICY

Holders of our shares of common stock are entitled to dividends when, as and if declared by our board of directors out of legally available funds.

We have not declared or paid any dividends in the past to the holders of our common stock and do not currently anticipate declaring or paying any dividends in the foreseeable future. We intend to retain earnings, if any, to finance the development and expansion of our business. Future dividend policy will be subject to the discretion of our board of directors and will be contingent upon future earnings, if any, our financial condition, capital requirements, general business conditions, and other factors. Therefore, we can give no assurance that any dividends of any kind will ever be paid to holders of our common stock.

SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT

The following table sets forth certain information regarding the ownership of our common stock as of June 30, 2022 by: (i) each director; (ii) each of our named executive officers; (iii) all executive officers and directors of the Company as a group; and (iv) all those known by the Company to be beneficial owners of more than five percent of our common stock.

We have determined beneficial ownership in accordance with the rules of the SEC. These rules generally attribute beneficial ownership of securities to persons who possess sole or shared voting power or investment power with respect to those securities. In addition, these rules require that we include shares of Common Stock issuable pursuant to the vesting of warrants and the exercise of stock options that are either immediately exercisable or exercisable within 60 days of June 30, 2022, and restricted stock units that vest within 60 days of June 30, 2022. These shares are deemed to be outstanding and beneficially owned by the person holding those warrants or options for the purpose of computing the percentage ownership of that person, but they are not treated as outstanding for the purpose of computing the percentage ownership of any other person. This table is based on information supplied by officers, directors and principal stockholders and Schedule 13D, Schedule 13G and Section 16 filings, if any, with the SEC. Unless otherwise indicated, the persons or entities identified in this table have sole voting and investment power with respect to all shares shown as beneficially owned by them, subject to applicable community property laws.

Except as otherwise noted below, the address for persons listed in the table is c/o Helius Medical Technologies, Inc., 642 Newtown Yardley Road, Suite 100, Newtown, Pennsylvania 18940.

	Beneficial Own	Beneficial Ownership(1)		
Beneficial Owner	Number of Shares of Common Stock	Percent of Total		
Columbus Capital Management LLC(2)	324,684	7.7%		
AIGH Capital Management, LLC(3)	192,950	4.6%		
Maple Leaf Capital I, LLC(4)	189,416	4.5%		
Antonella Favit-Van Pelt(5)	9,500	*		
Sherrie Perkins(6)	10,914	*		
Edward M. Straw(7)	20,669	*		
Mitchell E. Tyler(8)	30,712	*		
Blane Walter(9)	22,876	*		
Paul Buckman(10)	9,909	*		
Jeffrey S. Mathiesen(11)	63,701	1.5%		
Dane C. Andreeff(12)	419,729	9.4%		
All current executive officers and directors as a group (8 persons)(13)	588,009	12.9%		

* Less than one percent.

⁽¹⁾ This table is based upon information supplied by officers, directors and principal stockholders. Unless otherwise indicated in the footnotes to this table and subject to community property laws where applicable, the Company believes that each of the stockholders named in this table has sole voting and investment power with respect to the shares indicated as beneficially owned. Applicable percentages are based on 4,195,113 shares outstanding on June 30, 2022.

⁽²⁾ Includes 278,010 shares of Common Stock, and 46,674 shares of Common Stock issuable upon the exercise of warrants. Columbus Capital Management, LLC, which serves as the general partner and investment manager to each of Columbus Capital QP Partners, L.P., Columbus Capital Partners, L.P., and Columbus Capital Offshore QP Fund, LTD. (collectively "the Funds"), and Mr. Matthew D. Ockner, as Managing Member of Columbus Capital Management, LLC, with the power to exercise investment and voting discretion, may be deemed to be the beneficial owner of all shares of Common Stock held by the Funds. The business address of Matthew D. Ockner is 1 Embarcadero Center, Suite 1130, San Francisco, CA 94111. The percentage in this table reflects that the reporting persons may not exercise

the warrants to the extent such exercise would cause the reporting persons to beneficially own a number of shares of Common Stock that would exceed 9.99% of our then outstanding Common Stock following such exercise.

- (3) Represents shares held by AIGH Capital Management, LLC ("AIGH LP"), AIGH Investment Partners, L.L.C. ("AIGH LLC") and Orin Hirschman. AIGH LP is an advisor or sub-advisor with respect to shares held by AIGH Investment Partners, L.P. and WVP Emerging Manger Onshore Fund, LLC. AIGH LLC directly holds shares. Mr. Hirschman, who is the managing member of AIGH LP and president of AIGH LLC, holds shares directly with his family. The business address of AIGH LP, AIGH LLC and Mr. Hirschman is 6006 Berkeley Avenue, Baltimore, MD 21209.
- (4) Includes 86,482 shares of Common Stock and 12,350 shares of Common Stock issuable upon the exercise of warrants held by Maple Leaf Partners, L.P., 19,200 shares of Common Stock and 3,376 shares of Common Stock issuable upon the exercise of warrants held by Maple Leaf Partners I, L.P., 53,779 shares of Common Stock and 8,162 shares of Common Stock issuable upon the exercise of warrants held by Maple Leaf Discovery I, L.P., 4,634 shares of Common Stock and 1,433 shares of Common Stock issuable upon the exercise of warrants held by Maple Leaf Offshore, Ltd. Maple Leaf Capital I, LLC is the general partner of each of Maple Leaf Partners, L.P., Maple Leaf Discovery I, L.P., and Maple Leaf Offshore, Ltd., and Mr. Andreeff has sole voting and dispositive power over the shares.
- (5) Includes 9,500 shares of Common Stock issuable upon the exercise of stock options.
- (6) Includes 1,946 shares of Common Stock, 8,464 shares of Common Stock issuable upon the exercise of stock options and 504 shares issuable upon exercise of restricted stock units.
- (7) Includes 2,017 shares of Common Stock, 18,148 shares of Common Stock issuable upon the exercise of stock options and 504 shares issuable upon exercise of restricted stock units.
- (8) Includes 24,638 shares of Common Stock and 6,074 shares of Common Stock issuable upon the exercise of stock options.
- (9) Includes 4,360 shares of Common Stock, 18,102 shares of Common Stock issuable upon the exercise of stock options and 504 shares issuable upon exercise of restricted stock units.
- (10) Includes 1,609 shares of Common Stock, 7,736 shares of Common Stock issuable upon the exercise of stock options and 564 shares issuable upon exercise of restricted stock units.
- (11) Includes 11,948 shares of Common Stock and 51,753 shares of Common Stock issuable upon the exercise of stock options.
- (12) Includes 86,482 shares of Common Stock and 12,350 shares of Common Stock issuable upon the exercise of warrants held by Maple Leaf Partners, L.P., 19,200 shares of Common Stock and 3,376 shares of Common Stock issuable upon the exercise of warrants held by Maple Leaf Partners I, L.P., 53,779 shares of Common Stock and 8,162 shares of Common Stock issuable upon the exercise of warrants held by Maple Leaf Discovery I, L.P., 4,634 shares of Common Stock and 1,433 shares of Common Stock issuable upon the exercise of warrants held by Maple Leaf Offshore, Ltd., 2,394 shares on Common Stock held directly by Mr. Andreeff and 228,805 shares of Common Stock issuable upon the exercise of stock options held directly by Mr. Andreeff. Mr. Andreeff has sole voting and dispositive power over shares held by Maple Leaf Partners, L.P., Maple Leaf Discovery I, L.P. and Maple Leaf Offshore, Ltd.
- (13) Includes 212,121 shares of Common Stock, 348,491 shares of Common Stock issuable upon the exercise of stock options, 2,076 shares issuable upon exercise of restricted stock units and 25,321 shares of Common Stock issuable upon the exercise of warrants.

DESCRIPTION OF SECURITIES WE ARE OFFERING

Common Stock. The material terms and provisions of our common stock are described under the caption *"Description of Capital Stock"*.

Public Warrants. Upon completion of this offering we expect to have Public Warrants outstanding, each Public Warrant is exercisable for up to shares of common stock at an exercise price of \$ per share and is immediately exercisable for a period of five years following the date of issuance.

Pursuant to a warrant agency agreement between us and American Stock Transfer & Trust Company LLC, as warrant agent, the Public Warrants will be issued in book-entry form and shall be initially represented only by one or more global warrants deposited with the warrant agent, as custodian on behalf of The Depository Trust Company, or DTC, and registered in the name of Cede & Co., a nominee of DTC, or as otherwise directed by DTC.

The number of Public Warrants outstanding, and the exercise price of those securities, will be adjusted proportionately in the event of a reverse or forward stock split of our common stock, a recapitalization or reclassification of our common stock, payment of dividends or distributions in common stock to our common stock holders, or similar transactions. In the event that the Company effects a rights offering to its common stock holders or a pro rata distribution of its assets among its common stock holders, then the holder of the Public Warrants will have the right to participate in such distribution and rights offering to the extent of their pro rata share of the Company's outstanding common stock assuming they owned the number of shares of common stock issuable upon the exercise of their Public Warrants. In the event of a "Fundamental Transaction" by the Company, such as a merger or consolidation of it with another company, the sale or other disposition of all or substantially all of the Company's assets in one or a series of related transactions, a purchase offer, tender offer or exchange offer, or any reclassification, reorganization or recapitalization of the Company's common stock, then the Public Warrant holder will have the right to receive, for each share of common stock issuable upon the exercise of the Public Warrant, at the option of the holder, the number of shares of common stock of the successor or acquiring corporation or of the Company, if it is the surviving corporation, and any additional consideration payable as a result of the Fundamental Transaction, that would have been issued or conveyed to the Public Warrant holder had the holder exercised the Public Warrant immediately preceding the closing of the Fundamental Transaction. In lieu of receiving such common stock and additional consideration in the Fundamental Transaction, the Public Warrant holder may elect to have the Company or the successor entity purchase the Public Warrant holder's Public Warrant for its fair market value measured by the Black Scholes method.

In the event of the implementation of a reverse stock split, holders of the Public Warrants will be able to reset the exercise price of the Public Warrants based on the average of the five (5) VWAPs immediately prior to the date that is six trading days immediately following the reverse stock split. In addition, if while the Public Warrants are outstanding, the Company issues or sells, or is deemed to have issued or sold, any common stock and/or common stock equivalents other than in connection with certain exempt issuances, with a purchase price per share less than the exercise price in effect immediately prior to such issuance or sale or deemed issuance or sale, then immediately after such issuance or sale or deemed issuance or sale, the exercise price then in effect will be reduced to an amount equal to the new issuance price.

The Company will promptly notify the Public Warrant holders in writing of any adjustment to the exercise price or to the number of the outstanding Public Warrants, declaration of a dividend or other distribution, a special non-recurring cash dividend on or a redemption of the common stock, the authorization of a rights offering, the approval of the stockholders required for any proposed reclassification of the common stock, a consolidation or merger by the Company, sale of all or substantially all of the assets of the Company, any compulsory share exchange, or the authorization of any voluntary or involuntary dissolution, liquidation, or winding up of the Company.

The Public Warrants contain a contractual provision stating that all questions concerning the construction, validity, enforcement and interpretation of the Public Warrants are governed by and construed and enforced in accordance with the internal laws of the State of New York, without regard to the principles of conflicts of law.

There is no trading market available for the Public Warrants on any securities exchange or nationally recognized trading system, and we do not intend to list the Public Warrants on any securities exchange or nationally recognized trading system.

Pre-Funded Warrants. Each pre-funded warrant will have an initial exercise price per share equal to \$0.001. The pre-funded warrants will be immediately exercisable and may be exercised at any time until exercised in full. The exercise price and number of shares of common stock issuable upon exercise is subject to appropriate adjustment in the event of stock dividends, stock splits, reorganizations or similar events affecting our shares of common stock and the exercise price. The pre-funded warrants will be issued separately from the accompanying Public Warrants, and may be transferred separately immediately thereafter.

The pre-funded warrants will be 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). Purchasers of the pre-funded warrants in this offering may elect to deliver their exercise notice following the pricing of the offering and prior to the issuance of the pre-funded warrants at closing to have their prefunded warrants exercised immediately upon issuance and receive shares of common stock underlying the pre-funded warrants upon closing of this offering. A holder (together with its affiliates) may not exercise any portion of the pre-funded warrant to the extent that the holder would own more than 4.99% of the 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 stock after exercising the holder's pre-funded warrants up to 9.99% of the number 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 pre-funded warrants. Purchasers of pre-funded warrants in this offering may also elect prior to the issuance of the pre-funded warrants to have the initial exercise limitation set at 9.99% of our outstanding shares of common stock. No fractional shares of common stock will be issued in connection with the exercise of a pre-funded warrant. In lieu of fractional shares, we will round up to the next whole share.

If, at the time a holder exercises its pre-funded warrants, then in lieu of making the cash payment otherwise contemplated to be made to us upon such exercise in payment of the aggregate exercise price, the holder may elect instead to receive upon such exercise (either in whole or in part) the net number of shares of common stock determined according to a formula set forth in the pre-funded warrants.

Subject to applicable laws, a pre-funded warrant may be transferred at the option of the holder upon surrender of the pre-funded warrant to us together with the appropriate instruments of transfer.

There is no trading market available for the pre-funded warrants on any securities exchange or nationally recognized trading system. We do not intend to list the pre-funded warrants on any securities exchange or nationally recognized trading system.

In the event of a fundamental transaction, as described in the pre-funded warrants and generally including any reorganization, recapitalization or reclassification of our shares of common stock, the sale, transfer or other disposition of all or substantially all of our properties or assets, our consolidation or merger with or into another person, the acquisition of more than 50% of our outstanding shares of common stock, or any person or group becoming the beneficial owner of 50% of the voting power represented by our outstanding shares of common stock, the holders of the pre-funded warrants will be entitled to receive upon exercise of the pre-funded warrants the kind and amount of securities, cash or other property that the holders would have received had they exercised the pre-funded warrants immediately prior to such fundamental transaction.

PLAN OF DISTRIBUTION

Pursuant to a placement agency agreement, dated as of , 2022, we have engaged Roth Capital Partners, LLC to act as our exclusive placement agent to solicit offers to purchase the securities offered by this prospectus on a reasonable best efforts basis. The Placement Agent is not purchasing or selling any securities, nor is it required to arrange for the purchase and sale of any specific number or dollar amount of securities, other than to use its "reasonable best efforts" to arrange for the sale of the securities by us. Therefore, we may not sell the entire amount of securities being offered, or any at all. The Placement Agent may engage one or more subagents or selected dealers in connection with this offering.

We will enter into a securities purchase agreement directly with the institutional investors, at the investor's option, who purchase our securities in this offering. Investors who do not enter into a securities purchase agreement shall rely solely on this prospectus in connection with the purchase of our securities in this offering.

The placement agency agreement provides that the Placement Agent's obligations are subject to conditions contained in the placement agency agreement.

We will deliver the securities being issued to the investors upon receipt of investor funds for the purchase of the securities offered pursuant to this prospectus. We expect to deliver the securities being offered pursuant to this prospectus on or about , 2022. There is no minimum number of securities or amount of proceeds that is a condition to closing of this offering.

Placement Agent Fees, Commissions and Expenses

Upon the closing of this offering, we will pay the Placement Agent a cash transaction fee equal to 7.0% of the aggregate gross proceeds to us from the sale of the securities in the offering. In addition, we will reimburse the Placement Agent for its out-of-pocket expenses incurred in connection with this offering, including the fees and expenses of the counsel for the Placement Agent, up to \$100,000.

The following table shows the public offering price, Placement Agent fees and proceeds, before expenses, to us, assuming the purchase of all the securities we are offering.

	Per Share and related Public Warrant	Per Pre-Funded Warrant and related Public Warrant
Public Offering Price	\$	\$
Placement Agent fees	\$	\$
Proceeds to us before expenses	\$	\$

We estimate that the total expenses of the offering, including registration, filing and listing fees, printing fees and legal and accounting expenses, but excluding Placement Agent fees, will be approximately \$325,000, all of which are payable by us. This figure includes the Placement Agent's accountable expenses, including, but not limited to, legal fees for Placement Agent's legal counsel, that we have agreed to pay at the closing of the offering up to an aggregate expense reimbursement of \$100,000.

Lock-Up Agreements

We and each of our officers and directors as of the date of this prospectus have agreed with the Placement Agent to be subject to a lock-up period of ninety (90) days following the date of closing of the offering pursuant to this prospectus. This means that, during the applicable lock-up period, we and such persons may not offer for sale, contract to sell, sell, distribute, grant any option, right or warrant to purchase, pledge, hypothecate or otherwise dispose of, directly or indirectly, any of our shares of common stock or any securities convertible into, or exercisable or exchangeable for, shares of common stock, subject to customary exceptions, and subject to a potential private placement of common stock and warrants to purchase common stock by us of up to \$2,000,000. The Placement Agent may in its sole discretion and at any time without notice release some or all of the shares subject to lock-up agreements prior to the expiration of the lock-up period. When determining whether or not to release shares from the lock-up agreements,

the Placement Agent will consider, among other factors, the security holder's reasons for requesting the release, the number of shares for which the release is being requested and market conditions at the time.

Indemnification

We have agreed to indemnify the Placement Agent against certain liabilities, including liabilities under the Securities Act, and to contribute to payments that the Placement Agent may be required to make for these liabilities.

Determination of Offering Price and Warrant Exercise Price

The actual public offering price of the securities we are offering, and the exercise price of the Public Warrants and pre-funded warrants that we are offering, were negotiated between us, the Placement Agent and the investors in the offering based on the trading price of our common stock prior to the offering, among other things. Other factors considered in determining the public offering price of the securities we are offering, as well as the exercise price of the Public Warrants and pre-funded warrants that we are offering include our history and prospects, the stage of development of our business, our business plans for the future and the extent to which they have been implemented, an assessment of our management, the general conditions of the securities markets at the time of the offering and such other factors as were deemed relevant.

Other Compensation

If within six (6) months following the termination or expiration of our engagement with the Placement Agent, we complete any sale of equity, equity-linked, convertible or debt or other capital-raising activity for which the Placement Agent is not acting as underwriter or placement agent (other than the exercise by any person or entity of any options, warrants or other convertible securities) to any of the investors that the Placement Agent introduced to us or with which the Placement Agent conducted discussions on our behalf, subject to specified exceptions, then we are required to pay to the Placement Agent a commission as described in this section, in each case only with respect to the portion of such financing received from such investors.

Regulation M

The Placement Agent may be deemed to be an underwriter within the meaning of Section 2(a)(11) of the Securities Act, and any commissions received by it and any profit realized on the resale of the securities sold by it while acting as principal might be deemed to be underwriting discounts or commissions under the Securities Act. As an underwriter, the Placement Agent would be required to comply with the requirements of the Securities Act and the Exchange Act, including, without limitation, Rule 10b-5 and Regulation M under the Exchange Act. These rules and regulations may limit the timing of purchases and sales of our securities by the Placement Agent acting as principal. Under these rules and regulations, the Placement Agent (i) may not engage in any stabilization activity in connection with our securities and (ii) may not bid for or purchase any of our securities or attempt to induce any person to purchase any of our securities, other than as permitted under the Exchange Act, until it has completed its participation in the distribution.

Electronic Distribution

A prospectus in electronic format may be made available on a website maintained by the Placement Agent. In connection with the offering, the Placement Agent or selected dealers may distribute prospectuses electronically. No forms of electronic prospectus other than prospectuses that are printable as Adobe[®] PDF will be used in connection with this offering.

Other than the prospectus in electronic format, the information on the Placement Agent's website and any information contained in any other website maintained by the Placement Agent is not part of the prospectus or the registration statement of which this prospectus forms a part, has not been approved and/or endorsed by us or the Placement Agent in its capacity as placement agent and should not be relied upon by investors.

Certain Relationships

The Placement Agent and its affiliates may in the future provide, from time to time, investment banking and financial advisory services to us in the ordinary course of business, for which they may receive customary fees and commissions.

Listing

Our common stock is listed on the Nasdaq Capital Market under the symbol "HSDT."

DESCRIPTION OF CAPITAL STOCK

The following description of our capital stock and provisions of our Certificate of Incorporation and Amended and Restated Bylaws are summaries. You should also refer to the Certificate of Incorporation and the Amended and Restated Bylaws, which are filed as exhibits to the registration statement of which this prospectus is a part.

General

Our Certificate of Incorporation authorizes us to issue up to 150,000,000 shares of common stock and 10,000,000 shares of preferred stock, par value \$0.001 per share, all of which shares of preferred stock are currently undesignated. Our board of directors may establish the rights and preferences of the preferred stock from time to time.

As of March 31, 2022, there were (i) 3,794,797 shares of common stock outstanding; (ii) no outstanding shares of preferred stock; (iii) 785,228 shares of common stock issuable upon the exercise of outstanding stock options; (iv) 593,924 shares of common stock issuable upon the exercise of outstanding warrants; and (v) 775 restricted stock units.

Common Stock

Voting

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. Our stockholders do not have cumulative voting rights. Because of this, the holders of a majority of the shares of common stock entitled to vote in any election of directors can elect all of the directors standing for election, if they should so choose.

Dividends

Subject to preferences that may be applicable to any then-outstanding preferred stock, holders of our common stock are entitled to receive ratably those dividends, if any, as may be declared from time to time by the 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 the common stock. The rights, preferences and privileges of the holders of our common stock are subject to, and may be adversely affected by, the rights of the holders of shares of any series of preferred stock that we may designate in the future.

Preferred Stock

Our board of directors has the authority under our Certificate of Incorporation, without further action by our stockholders, to issue up to 10,000,000 shares of preferred stock in one or more series, to establish from time to time the number of shares to be included in each such series, to fix the rights, preferences and privileges of the shares of each wholly unissued series and any qualifications, limitations or restrictions thereon, and to increase or decrease the number of shares of any such series, but not below the number of shares of such series then outstanding.

Our board of directors may authorize the issuance of preferred stock with voting or conversion rights that could adversely affect the voting power or other rights of the holders of our common stock. The purpose



of authorizing our board of directors to issue preferred stock and determine its rights and preferences is to eliminate delays associated with a stockholder vote on specific issuances. The issuance of preferred stock, while providing flexibility in connection with possible acquisitions and other corporate purposes, could, among other things, have the effect of delaying, deferring or preventing a change in control of us and may adversely affect the market price of our common stock and the voting and other rights of the holders of our common stock. It is not possible to state the actual effect of the issuance of any shares of preferred stock on the rights of holders of common stock until the board of directors determines the specific rights attached to that preferred stock.

Description of Outstanding Warrants

As of March 31, 2022, there were warrants outstanding to purchase 593,924 shares of common stock issuable upon the exercise of warrants at a weighted-average exercise price of \$16.32. Certain of these warrants have a net exercise provision under which its holder may, in lieu of payment of the exercise price in cash, surrender the warrant and receive a net amount of shares based on the fair market value of our common stock at the time of exercise of the warrant after deduction of the aggregate exercise price. Each of these warrants also contains provisions for the adjustment of the exercise price and the aggregate number of shares issuable upon the exercise of the warrant in the event of dividends, share splits, reorganizations and reclassifications and consolidations. Certain of these warrants if the holder, together with its affiliates, would beneficially own over 4.99% of our then outstanding common stock following such exercise; provided, however, that upon prior notice to us, the warrant holder may increase its ownership, provided that in no event will the ownership exceed 9.99%.

Anti-Takeover Provisions

Section 203 of the Delaware General Corporation Law

We are subject to Section 203 of the Delaware General Corporation Law, 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 (1) by persons who are directors and also officers and (2) 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:

- 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.

Certificate of Incorporation and Amended and Restated Bylaws

Our Certificate of Incorporation provides that the authorized number of directors may be changed only by resolution of the board of directors, and vacancies and newly created directorships on the board of directors may, except as otherwise required by law or determined by the board of directors, only be filled by a majority vote of the directors then serving on the board of directors, even though less than a quorum.

Our Amended and Restated Bylaws 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. Our Amended and Restated Bylaws also provide that only our Chairman of the board of directors, 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.

Our Amended and Restated 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. At any meeting of stockholders for the election of directors at which a quorum is present, the election will be determined by a plurality of the votes cast by the stockholders entitled to vote at the election.

Our Certificate of Incorporation and Amended and Restated Bylaws provide that the stockholders cannot amend many of the provisions described above except by a vote of 66^{2/3}% or more of our outstanding common stock. As described above, our Certificate of Incorporation gives 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.

The combination of these provisions will make 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 our control.

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:

- 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 Delaware General Corporation Law, our Certificate of Incorporation or our Amended and Restated Bylaws; or
- any action asserting a claim against us that is governed by the internal affairs doctrine.

The provision does not apply to suits brought to enforce a duty or liability created by the Exchange Act.

The enforceability of similar choice of forum provisions in other companies' certificates of incorporation has been challenged in legal proceedings, and it is possible that, in connection with any action, a court could find the choice of forum provisions contained in our Certificate of Incorporation to be inapplicable or unenforceable in such action. Our Certificate of Incorporation further provides that the federal district courts of the United States 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.

Registration Rights

Pursuant to the terms of convertible notes issued to A&B (HK) Company Limited in October 2015 and December 2015, we agreed to register any shares issued upon the conversion of such convertible notes upon the request of A&B (HK) Company Limited. As of June 30, 2022, A&B (HK) Company Limited beneficially owned 71,306 shares of common stock that were issued upon the conversion of such convertible notes.

Transfer Agent and Registrar

The transfer agent and the registrar for the Company is American Stock Transfer & Trust Company LLC, 6201 15th Avenue, Brooklyn, New York 11219; Telephone: 800-937-5449.

Common Stock Listing

Our common stock is listed on the Nasdaq Capital Market under the symbol "HSDT".

LEGAL MATTERS

Honigman LLP, Kalamazoo, Michigan, will issue a legal opinion as to the validity of the securities offered by this prospectus.

EXPERTS

The consolidated financial statements as of December 31, 2021 and 2020, and for the years then ended, incorporated by reference in this Prospectus and in the Registration Statement have been so incorporated in reliance on the reports of BDO USA, LLP, an independent registered public accounting firm, incorporated herein by reference, given on the authority of said firm as experts in auditing and accounting. The report on the consolidated financial statements contains an explanatory paragraph regarding the Company's ability to continue as a going concern.

WHERE YOU CAN FIND MORE INFORMATION

We file reports, proxy statements and other information with the SEC in accordance with the Exchange Act. Our reports, proxy statements and other information filed with the SEC are available free of charge to the public over the Internet at the SEC's website at http://www.sec.gov.These documents may also be accessed on our website at www.heliusmedical.com. We are not including the information on our website as a part of, nor incorporating it by reference into, this prospectus or the registration statement of which it forms a part.

INCORPORATION OF CERTAIN DOCUMENTS BY REFERENCE

The SEC allows us to "incorporate by reference" in this prospectus much of the information we file with the SEC, which means that we can disclose important information to you by referring you to those publicly available documents. The information we incorporate by reference is an important part of this prospectus, and certain information that we will later file with the SEC will automatically update and supersede this information. Later information that we file with the SEC will automatically update and supersede the information that is either contained, or incorporated by reference, in this prospectus, and will be considered to be a part of this prospectus from the date those documents are filed.

We incorporate by reference into this prospectus and the registration statement of which this prospectus forms a part the information or documents listed below that we have filed with the SEC, and any future filings we will make with the SEC under Sections 13(a), 13(c), 14, or 15(d) of the Exchange Act (other than information furnished under Item 2.02 or Item 7.01 of Form 8-K or Schedule 14A), including all filings filed pursuant to the Exchange Act after the date of the registration statement and prior to effectiveness of the registration statement, and following effectiveness of the registration statement and until the termination or completion of the offering of the securities covered by this prospectus:

- Our Annual Report on Form 10-K for the fiscal year ended December 31, 2021, filed with the SEC on March 14, 2022, including the information specifically incorporated by reference into such Annual Report on Form 10-K from our <u>definitive proxy statement for our 2022 Annual</u> Meeting of Stockholders filed with the SEC on April 22, 2022;
- Our Quarterly Report on Form 10-Q for the quarter ended March 31, 2022, filed with the SEC on May 12, 2022;
- Our Current Reports on Form 8-K filed with the SEC on <u>February 18, 2022</u>, <u>April 27, 2022</u>, and <u>May 27, 2022</u>; and
- The description of the Registrant's Common Stock contained in the Registrant's <u>Form 8-A (File No. 001-38445) filed with the Commission on April 4, 2018</u>, as further amended by any subsequent amendment or report filed for the purpose of updating such description.

We will furnish without charge to you, on written or oral request, a copy of any or all of the documents incorporated by reference in this prospectus including exhibits to these documents. You should direct any requests for documents to Helius Medical Technologies, Inc., Attn: Chief Financial Officer, 642 Newtown Yardley Road, Suite 100, Newtown, PA 18940, or via e-mail at inquiry@heliusmedical.com. Our phone number is (215) 944-6104.

You also may access these filings on our website at http://www.heliusmedical.com. We do not incorporate the information on our website into this prospectus and you should not consider any information on, or that can be accessed through, our website as part of this prospectus (other than those filings with the SEC that we specifically incorporate by reference into this prospectus).



UP TO 9,493,671 SHARES OF COMMON STOCK WARRANTS TO PURCHASE UP TO 14,240,507 SHARES OF COMMON STOCK PRE-FUNDED WARRANTS TO PURCHASE UP TO 9,493,671 SHARES OF COMMON STOCK

PROSPECTUS

Roth Capital Partners

, 2022

PART II

INFORMATION NOT REQUIRED IN PROSPECTUS

Item 13. Other Expenses of Issuance and Distribution.

The following table sets forth the various expenses to be incurred in connection with the sale and distribution of the securities being registered hereby (except any placement agent fees and commissions). All amounts shown are estimates except the SEC registration fee.

	Amount
SEC registration fee	\$3,684.83
FINRA filing fee	\$ 5,225
Printing expenses	\$ 50,000
Accounting fees and expenses	\$ 55,000
Legal fees and expenses	\$ 200,000
Transfer agent fees and expenses	\$ 2,000
Miscellaneous fees and expenses	\$9,090.17
Total	\$ 325,000

Item 14. Indemnification of Directors and Officers.

We are incorporated under the laws of the State of Delaware. Section 102 of the Delaware General Corporation Law permits a corporation to eliminate the personal liability of directors of a corporation to the corporation or its stockholders for monetary damages for a breach of fiduciary duty as a director, except where the director breached his or her duty of loyalty, failed to act in good faith, engaged in intentional misconduct or knowingly violated a law, authorized the payment of a dividend or approved a stock repurchase in violation of Delaware corporate law or obtained an improper personal benefit.

Section 145 of the Delaware General Corporation Law 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 he or she is or is threatened to be made a party by reason of such position, if such person acted in good faith and in a manner he or she 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 his or her 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 Delaware General Corporation Law, our amended and restated bylaws provide that: (1) we are required to indemnify our directors and executive officers to the fullest extent permitted by the Delaware General Corporation Law; (2) we may, in our discretion, indemnify our other officers, employees and agents as set forth in the Delaware General Corporation Law; (3) we are required, upon satisfaction of certain conditions, to advance all expenses incurred by our directors and executive officers in connection with certain legal proceedings; (4) the rights conferred in the bylaws are not exclusive; (5) we are authorized to enter into indemnification agreements with our directors, officers, employees and agents; and (6) we may secure insurance on behalf of any director, officer, employee or other agent for any liability arising out of his or her actions in that capacity regardless of whether we would otherwise be permitted to indemnify him or her under the provisions of Delaware law.

We have entered into indemnification agreements with our directors and officers. These agreements provide broader indemnity rights than those provided under the Delaware General Corporation Law and

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our Certificate of Incorporation. The indemnification agreements are not intended to deny or otherwise limit third-party or derivative suits against us or our directors or officers, but to the extent a director or officer were entitled to indemnity or contribution under the indemnification agreement, the financial burden of a third-party suit would be borne by us, and we would not benefit from derivative recoveries against the director or officer. Such recoveries would accrue to our benefit but would be offset by our obligations to the director or officer under the indemnification agreement.

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.

Item 15. Recent Sales of Unregistered Securities.

The following sets forth information regarding all unregistered securities sold by the Registrant in the three years preceding the date of this registration statement.

On September 1, 2021, we entered into a purchase agreement with Lincoln Park Capital Fund, LLC (the "Lincoln Park Purchase Agreement") pursuant to which we have the right to sell to Lincoln Park up to \$15.0 million in shares of common stock, subject to certain limitations, from time to time over the 36-month period commencing on the date that a registration statement covering the resale of the shares is declared effective by the SEC. We issued 31,958 commitment shares to Lincoln Park as consideration for its commitment to purchase our shares under the Lincoln Park Purchase Agreement, following the delisting of our common stock from the TSX. As of June 30, 2022, we have sold 431,363 shares to Lincoln Park under the Lincoln Park Purchase Agreement.

On October 21, 2020, we entered into a securities purchase agreement (the "October 2021 Purchase Agreement") with certain purchasers, pursuant to which we agreed to sell and issue, in a private placement, an aggregate of 187,646 shares of common stock. Pursuant to the October 2021 Purchase Agreement, we also issued 93,817 warrants. The warrants have an initial exercise price of \$15.82 per share and expire on October 26, 2023, except that warrants issued to insiders, and affiliates of insiders, have an initial exercise price of \$16.1665 per share and expire on October 26, 2023. Joseph Gunnar & Co., LLC acted as placement agent in connection with the private placement. We issued warrants to the Joseph Gunnar & Co., LLC to purchase 961 shares of our common stock, with an exercise price of \$19.775 per share.

On March 18, 2020, we entered into a securities purchase agreement (the "March 2020 Purchase Agreement") with certain purchasers, pursuant to which we agreed to sell and issue to such purchasers, in a registered direct offering, an aggregate of 178,776 shares of our common stock, at \$12.25 per share. Pursuant to the March 2020 Purchase Agreement, in a concurrent private placement, on March 20, 2020 we issued to the purchasers warrants to purchase up to 178,776 shares of common stock. The warrants are exercisable beginning on September 21, 2020 at an exercise price of \$16.10 per share and expire on September 22, 2025. H.C. Wainwright & Co., LLC acted as placement agent for the private placement.

Unless otherwise noted, the transactions described in Item 15 were exempt from registration under the Securities Act pursuant to Section 4(a)(2) of the Securities Act in that such sales did not involve a public offering, under Rule 701 promulgated under the Securities Act, in that they were offered and sold either pursuant to written compensatory plans or pursuant to a written contract relating to compensation, as provided by Rule 701, or under Rule 506 of Regulation D promulgated under the Securities Act.

Item 16. Exhibits and Financial Statement Schedules.

(a) Exhibits.

The exhibits to the registration statement are listed in the Exhibit Index attached hereto and incorporated by reference herein.

(b) Financial Statement Schedules.

No financial statement schedules are provided because the information called for is not required or is shown either in the financial statements or notes.

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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;
 - (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 Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than 20 percent change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table 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 (a)(1)(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 Commission by the Registrant pursuant to Section 13 or Section 15(d) of the Exchange Act, that are incorporated by reference in the registration statement.

- (2) That, for the purpose of determining any liability under the Securities Act, each such posteffective 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 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 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) The Registrant hereby undertakes that, for purposes of determining any liability under the Securities Act, each filing of the Registrant's annual report pursuant to Section 13(a) or 15(d) of the Exchange Act (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Exchange Act) 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.
- (c) Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers and controlling persons of the Registrant pursuant to the indemnification provisions described herein, 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 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 and will be governed by the final adjudication of such issue.



EXHIBIT INDEX

Exhibit Number	Exhibit						
3.1	<u>Certificate of Conversion filed with the Delaware Secretary of State on July 18, 2018</u> (incorporated by reference to Exhibit 3.1 to the Form 10-Q filed August 9, 2018)						
3.2	Certificate of Incorporation, as corrected (incorporated by reference to Exhibit 3.1 to the Form 8-K filed October 30, 2018)						
3.3	Certificate of Amendment to Certificate of Incorporation (incorporated by reference to Exhibit 3.1 to the Form 8-K filed on December 31, 2020)						
3.4	Bylaws as amended and restated (incorporated by reference to Exhibit 3.3 to the Form 10-Q filed August 9, 2018)						
4.1**	Form of Public Warrant						
4.1	Form of Warrant Agency Agreement (incorporated by reference to Exhibit 4.2 to the Form S-						
	1/A filed on July 26, 2022)						
4.3	Form of Pre-Funded Warrant (incorporated by reference to Exhibit 4.3 to the Form S-1/A filed on July 26, 2022)						
5.1	Opinion of Honigman LLP (incorporated by reference to Exhibit 5.1 to the Form S-1/A filed on July 26, 2022)						
10.1	<u>License Agreement between Advanced NeuroRehabilitation, LLC and Yuri Danilov, Mitchell</u> <u>Tyler, Kurt Kaczmarek and John Klus, dated June 29, 2011 (incorporated by reference to</u>						
	Exhibit 10.8 to the Amendment to Form S-1 filed with the SEC on September 23, 2014)						
10.2	Amended and Restated Patent Sub-License Agreement between Advanced NeuroRehabilitation,						
	LLC and Helius Medical, Inc., having an effective date of January 22, 2013 (incorporated by						
	reference to Exhibit 10.1 to the Form S-1 filed with the SEC on July 14, 2014)						
10.3	Second Amended and Restated Patent Sub-License Agreement between Advanced						
	NeuroRehabilitation, LLC and Helius Medical, Inc, dated June 6, 2014, but having an effective						
	<u>date of January 22, 2013 (incorporated by reference to Exhibit 10.7 to the Form S-1 filed with</u> <u>the SEC on July 14, 2014)</u>						
10.4	<u>Design and Manufacturing Consultant Agreement between Helius Medical, Inc and Clinvue,</u>						
10.4	<u>LLC, dated January 30, 2013 (incorporated by reference to Exhibit 10.3 to the Form S-1 filed</u>						
	with the SEC on July 14, 2014)						
10.5	<u>Commercial Development-to-Supply Program between Helius Medical, Inc and Ximedica,</u>						
	dated October 25, 2013 (incorporated by reference to Exhibit 10.4 to the Form S-1 filed with						
	the SEC on July 14, 2014)						
10.6‡	Asset Purchase Agreement between the Company and A&B (HK) Company Limited, dated as						
	of October 9, 2015 (Confidential information has been omitted and filed separately with the						
	SEC. Confidential treatment has been granted with respect to this omitted information.)						
	(incorporated by reference to Exhibit 2.1 to the Form 8-K filed with the SEC on October 16, 2015)						
10.6.1	Amendment to Asset Purchase Agreement between the Company and A&B (HK) Company						
	Limited, dated as of October 30, 2017 (incorporated by reference to Exhibit 10.1 to the Form 8-						
	K filed with the SEC on November 2, 2017)						
10.6.2	Supplemental Agreement to Asset Purchase Agreement dated October 9, 2015, between Helius						
	Medical, Inc. and A&B (HK) Company Limited, dated as of August 15, 2018 (incorporated by						
	reference to Exhibit 10.27 to the Form 10-K filed March 14, 2019)						
10.7*	<u>Amended and Restated June 2014 Equity Incentive Plan (incorporated by reference to</u>						
	Exhibit 4.3 to the Form 10-Q filed with the SEC on November 9, 2017)						
10.7.1*	2014 Stock Incentive Plan Form of Option Grant Agreement (incorporated by reference to						
	Exhibit 10.23.1 to the Transition Report on Form 10-K filed with the SEC on April 3, 2017)						

Exhibit Number	Exhibit					
10.8*	2016 Omnibus Incentive Plan (incorporated by reference to Exhibit 10.25 to the Transition					
	<u>Report on Form 10-K filed with the SEC on April 3, 2017)</u>					
10.8.1*	Amendment Number 1 to the 2016 Omnibus Incentive Plan (incorporated by reference to					
	Exhibit 10.25.1 to the Transition Report on Form 10-K filed with the SEC on April 3, 2017)					
10.8.2*	Amendment Number 2 to the 2016 Omnibus Incentive Plan (incorporated by reference to					
1007*	Exhibit 4.7 to the Registration Statement on Form S-8 filed with the SEC on May 18, 2017)					
10.8.3*	<u>2016 Omnibus Incentive Plan Form of U.S. Option Grant Agreement (incorporated by</u> reference to Exhibit 4.8 to the Registration Statement on Form S-8 filed with the SEC on					
	May 18, 2017)					
10.8.4*	2016 Omnibus Incentive Plan Form of Canada Option Grant Agreement (incorporated by					
	reference to Exhibit 4.9 to the Registration Statement on Form S-8 filed with the SEC on					
	<u>May 18, 2017)</u>					
10.9*	2018 Omnibus Incentive Plan, as amended (incorporated by reference to Exhibit 10.2 to the					
	<u>Form 10-Q filed November 8, 2018)</u>					
10.9.1*	2018 Omnibus Incentive Plan Form of Option Grant Agreement (incorporated by reference to					
	Exhibit 10.3 to the Form 10-Q filed November 8, 2018)					
10.9.2*	<u>2018 Omnibus Incentive Plan Form of Restricted Stock Unit Grant Agreement (incorporated by</u> reference to Exhibit 10.4 to the Form 10-Q filed November 8, 2018)					
10.9.3*	2018 Omnibus Incentive Plan Form of Option Grant Agreement – 2020 Retention Grant					
10.9.5	(incorporated by reference to Exhibit 10.1 to the Form 8-K filed on October 7, 2020)					
10.9.4*	2018 Omnibus Incentive Plan Form of Stock Grant Notice and Award Agreement (incorporated					
	by reference to Exhibit 10.1 to the Form 8-K filed on April 7, 2021)					
10.9.5*	Amendment to the Helius Medical Technologies, Inc. 2018 Omnibus Incentive Plan					
	(incorporated by reference to Exhibit 10.1 to the Form 8-K filed on May 27, 2021)					
10.9.6*	2018 Omnibus Incentive Plan Form of Option Grant Agreement – Initial Grants to Dane C.					
	Andreeff and Jeffrey S. Mathiesen (incorporated by reference to Exhibit 10.3 to the Form 8-K					
	<u>filed on June 15, 2021)</u>					
10.10*	<u>Form of Indemnification Agreement (incorporated by reference to Exhibit 10.24 to the</u> <u>Form 10-K filed on March 10, 2021)</u>					
10.11	Non-employee Director Compensation Policy (incorporated by reference to Exhibit 10.7 to the					
	Form 10-Q filed on May 17, 2021)					
10.12*	Employment Agreement between Helius Medical Technologies, Inc. and Dane C. Andreeff,					
	dated June 14, 2021 (incorporated by reference to Exhibit 10.1 to the Form 8-K filed on					
10.13*	<u>June 15, 2021)</u> <u>Employment Agreement between Helius Medical Technologies, Inc. and Jeffrey S. Mathiesen,</u>					
10.15	dated June 14, 2021 (incorporated by reference to Exhibit 10.2 to the Form 8-K filed on					
	June 15, 2021)					
10.14*	Helius Medical Technologies, Inc. 2021 Inducement Plan (incorporated by reference to					
	Exhibit 4.6 to the Form S-8 filed July 7, 2021)					
10.14.1*	Form of Stock Option Grant Notice, Option Agreement and Notice of Exercise under the Helius					
	<u>Medical Technologies, Inc. 2021 Inducement Plan (incorporated by reference to Exhibit 4.5 to</u> <u>the Form S-8 filed July 7, 2021)</u>					
10.15*	Separation and Release Agreement between Helius Medical Technologies, Inc. and Joyce					
	LaViscount, dated August 17, 2021 (incorporated by reference to Exhibit 10.1 to the Form 8-K					
	<u>filed on August 19, 2021)</u>					
10.16	Purchase Agreement between Helius Medical Technologies, Inc. and Lincoln Park Capital					
	Fund, LLC dated September 1, 2021 (incorporated by reference to Exhibit 10.1 to the Form 8-K filed on September 2, 2021)					
	<u>filed on September 2, 2021)</u>					

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Exhibit Number	Exhibit
10.17	Registration Rights Agreement between Helius Medical Technologies, Inc. and Lincoln Park
	<u>Capital Fund, LLC, dated September 1, 2021 (incorporated by reference to Exhibit 10.2 to</u>
	<u>the Form 8-K filed on September 2, 2021)</u>
10.18*	Employment Agreement between Helius Medical Technologies, Inc. and Antonella Favit-Van
	Pelt, dated July 7, 2021 (incorporated by reference to Exhibit 10.31 to the Form S-1 filed on
	<u>September 3, 2021)</u>
10.19*	Helius Medical Technologies, Inc. 2022 Equity Incentive Plan (incorporated by reference to
	Exhibit 10.1 to the Form 8-K filed on February 18, 2022)
10.19.1*	Helius Medical Technologies, Inc. 2022 Equity Incentive Plan Form of Stock Option
	Agreement (incorporated by reference to Exhibit 10.3 to the Form 8-K filed on February 18,
10.00	<u>2022)</u>
10.20	Form of Securities Purchase Agreement (incorporated by reference to Exhibit 10.20/10.21 to
	the Form S-1 filed on July 26, 2022)
10.21	Form of Placement Agency Agreement (incorporated by reference to Exhibit 10.20/10.21 to
	the Form S-1 filed on July 26, 2022)
21.1	Subsidiaries of Helius Medical Technologies, Inc. (incorporated by reference to Exhibit 21.1
	to the Form 10-K filed on March 14, 2022)
23.1**	Consent of BDO USA, LLP
23.2	<u>Consent of Honigman LLP (included in Exhibit 5.1 hereto)</u>
24.1	Power of Attorney (incorporated by reference to Exhibit 24.1 to the Form S-1 filed on
	<u>July 12, 2022)</u>
107**	<u>Filing Fee Table</u>

* Indicates a management contract or compensatory plan.

** Filed herewith.

 Confidential information has been omitted and filed separately with the Securities and Exchange Commission. Confidential treatment has been granted with respect to this omitted information.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, as amended, the Registrant has duly caused this Registration Statement on Form S-1 to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Newton, State of Pennsylvania, on August 4, 2022.

Helius Medical Technologies, Inc.

By: /s/ Dane C. Andreeff

Dane C. Andreeff President, Chief Executive Officer and Director

Pursuant to the requirements of the Securities Act of 1933, as amended, this Registration Statement on Form S-1 has been signed by the following persons in the capacities and on the dates indicated.

Signature	Title	Date		
/s/ Dane C. Andreeff Dane C. Andreeff	President, Chief Executive Officer (Principal Executive Officer) and Director	August 4, 2022		
/s/ Jeffrey S. Mathiesen Jeffrey S. Mathiesen	Chief Financial Officer (Principal Financial Officer and Principal Accounting Officer) and Director	August 4, 2022		
* Edward M. Straw	Director	August 4, 2022		
*Sherrie Perkins	Director	August 4, 2022		
* Paul Buckman	Director	August 4, 2022		
* Blane Walter	Director	August 4, 2022		
*By: /s/ Dane Andreeff				

Attorney-in-fact

COMMON STOCK PURCHASE WARRANT

HELIUS MEDICAL TECHNOLOGIES, INC.

Warrant Shares:

Initial Exercise Date: _____, 2022

THIS COMMON STOCK PURCHASE WARRANT (the "<u>Warrant</u>") certifies that, for value received, _______ or its assigns (the "<u>Holder</u>") is entitled, upon the terms and subject to the limitations on exercise and the conditions hereinafter set forth, at any time on or after the date hereof (the "<u>Initial Exercise Date</u>") and on or prior to 5:00 p.m. (New York City time) on ______, 2027¹ (the "<u>Termination Date</u>") but not thereafter, to subscribe for and purchase from Helius Medical Technologies, Inc., a Delaware corporation (the "<u>Company</u>"), up to ______ shares (as subject to adjustment hereunder, the "<u>Warrant Shares</u>") of Common Stock. The purchase price of one share of Common Stock under this Warrant shall be equal to the Exercise Price, as defined in Section 2(b). This Warrant shall initially be issued and maintained in the form of a security held in book-entry form and the Depository Trust Company or its nominee ("<u>DTC</u>") shall initially be the sole registered holder of this Warrant, subject to a Holder's right to elect to receive a Warrant in certificated form pursuant to the terms of the Warrant Agency Agreement, in which case this sentence shall not apply.

<u>Section 1.</u> <u>Definitions</u>. In addition to the terms defined elsewhere in this Warrant, the following terms have the meanings indicated in this Section 1:

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

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

¹ Insert the date that is the five year anniversary of the Initial Exercise Date, provided that, if such date is not a Trading Day, insert the immediately following Trading Day.

"Board of Directors" means the board of directors of the Company.

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

"<u>Commission</u>" means the United States Securities and Exchange Commission.

"<u>Common Stock</u>" means the Class A Common Stock of the Company, par value \$0.001 per share, and any other class of securities into which such securities may hereafter be reclassified or changed.

"<u>Common Stock Equivalents</u>" means any securities of the Company or the Subsidiaries which would entitle the holder thereof to acquire at any time Common Stock, including, without limitation, any debt, preferred stock, right, option, warrant or other instrument that is at any time convertible into or exercisable or exchangeable for, or otherwise entitles the holder thereof to receive, Common Stock.

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

"Exempt Issuance" means the issuance of (a) shares of Common Stock, options, restricted stock units or other equity-based awards to employees, officers or directors of the Company or its subsidiaries pursuant to any compensation plan duly adopted for such purpose, by a majority of the non-employee members of the Board of Directors or a majority of the members of a committee of non-employee directors established for such purpose for services rendered to the Company, (b) securities upon the exercise or exchange of or conversion of any securities issued pursuant to the Purchase Agreement and/or other securities exercisable or exchangeable for or convertible into shares of Common Stock issued and outstanding on the date of the Purchase Agreement, provided that such securities have not been amended since the date of this Agreement to increase the number of such securities or to decrease the exercise price, exchange price or conversion price of such securities (other than in connection with stock splits or combinations) or to extend the term of such securities, (c) securities issued pursuant to acquisitions or strategic transactions (including, without limitation, joint venture, co-marketing, co-development or other collaboration agreements) approved by a majority of the disinterested directors of the Company, provided that such securities are issued as "restricted securities" (as defined in Rule 144) and carry no registration rights that require or permit the filing of any registration statement in connection therewith during the 90 day period following the Initial Exercise Date, and provided that any such issuance shall only be to a Person (or to the equityholders of a Person) which is, itself or through its subsidiaries, an operating company or an owner of an asset in a business synergistic with the business of the Company and shall provide to the Company additional benefits in addition to the investment of funds, but shall not include a transaction in which the Company is issuing securities primarily for the purpose of raising capital or to an entity whose primary business is investing in securities, (d) up to \$2,000,000 of shares of Common Stock and warrants to purchase shares of Common Stock following the Initial Exercise Date at an aggregate price per share of Common Stock and warrant equal to the higher of (i) \$___2 (subject to adjustment for forward and reverse stock splits and the like following the Initial Exercise Date) and (ii) a price equal to 90% of the closing price of the Common Stock on the date immediately preceding the date hereof, and (f) shares of Common Stock, options, restricted stock units or other equity-based awards issued to consultants approved by a majority of the disinterested directors of the Company, provided that such securities are issued as "restricted securities" (as defined in Rule 144) and carry no registration rights that require or permit the filing of any registration statement in connection therewith during the 90 day period following the Initial Exercise Date.

² Insert the Per Share Purchase Price

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

"<u>Purchase Agreement</u>" means the Securities Purchase Agreement, dated as of ______, 2022, between the Company and the purchasers signatory thereto.

"Registration Statement" means the Company's registration statement on Form S-1 (File No. 333-266107).

"<u>Reverse Stock Split Date</u>" means the first date following the Initial Exercise Date on which a reverse stock split of the Common Stock is approved and deemed effective.

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

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

"<u>Subsidiary</u>" means any subsidiary of the Company and shall, where applicable, also include any direct or indirect subsidiary of the Company formed or acquired after the date hereof.

"Trading Day" means a day on which the Common Stock is traded on a Trading Market.

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

"<u>Transfer Agent</u>" means American Stock Transfer & Trust Company, LLC, a New York limited liability trust company, the current transfer agent of the Company, with a mailing address of 6201 15th Avenue, Brooklyn, NY 11219, and any successor transfer agent of the Company.

"Trigger Date" means the 6th Trading Day immediately following the Reverse Stock Split Date.

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

"<u>Warrant Agency Agreement</u>" means that certain warrant agency agreement, dated on or about the Initial Exercise Date, between the Company and the Warrant Agent.

"Warrant Agent" means the Transfer Agent and any successor warrant agent of the Company.

"<u>Warrants</u>" means this Warrant and other Common Stock purchase warrants issued by the Company pursuant to the Registration Statement.

Section 2. Exercise

Exercise of Warrant. Exercise of the purchase rights represented by this Warrant may be made, in whole or in part, at any a) time or times on or after the Initial Exercise Date and on or before the Termination Date by delivery to the Company and the Warrant Agent of a duly executed PDF copy submitted by e-mail (or e-mail attachment) of the Notice of Exercise in the form annexed hereto (the "Notice of Exercise"). Within the earlier of (i) two (2) Trading Days and (ii) the number of Trading Days comprising the Standard Settlement Period (as defined in Section 2(d)(i) herein) following the date of exercise as aforesaid, the Holder shall deliver the aggregate Exercise Price for the shares specified in the applicable Notice of Exercise by wire transfer or cashier's check drawn on a United States bank unless the cashless exercise procedure specified in Section 2(c) below is specified in the applicable Notice of Exercise. No ink-original Notice of Exercise shall be required, nor shall any medallion guarantee (or other type of guarantee or notarization) of any Notice of Exercise be required. Notwithstanding anything herein to the contrary, the Holder shall not be required to physically surrender this Warrant to the Company until the Holder has purchased all of the Warrant Shares available hereunder and the Warrant has been exercised in full, in which case, the Holder shall surrender this Warrant to the Company for cancellation within three (3) Trading Days of the date on which the final Notice of Exercise is delivered to the Company. Partial exercises of this Warrant resulting in purchases of a portion of the total number of Warrant Shares available hereunder shall have the effect of lowering the outstanding number of Warrant Shares purchasable hereunder in an amount equal to the applicable number of Warrant Shares purchased. The Holder and the Company shall maintain records showing the number of Warrant Shares purchased and the date of such purchases. The Company shall deliver any objection to any Notice of Exercise within one (1) Business Day of receipt of such notice. Notwithstanding the foregoing, with respect to any Notice(s) of Exercise delivered on or prior to 4:00 p.m. (New York City time) on the Trading Date prior to the Initial Exercise Date, which may be delivered at any time after the time of execution of the Purchase Agreement, the Company agrees to deliver the Warrant Shares subject to such notice(s) by 4:00 p.m. (New York City time) on the Initial Exercise Date and the Initial Exercise Date shall be the Warrant Share Delivery Date for purposes hereunder, provided that payment of the aggregate Exercise Price (other than in the case of a cashless exercise) is received by such Warrant Share Delivery Date. The Holder and any assignee, by acceptance of this Warrant, acknowledge and agree that, by reason of the provisions of this paragraph, following the purchase of a portion of the Warrant Shares hereunder, the number of Warrant Shares available for purchase hereunder at any given time may be less than the amount stated on the face hereof.

Notwithstanding the foregoing in this Section 2(a), a holder whose interest in this Warrant is a beneficial interest in certificate(s) representing this Warrant held in book-entry form through DTC (or another established clearing corporation performing similar functions), shall effect exercises made pursuant to this Section 2(a) by delivering to DTC (or such other clearing corporation, as applicable) the appropriate instruction form for exercise, complying with the procedures to effect exercise that are required by DTC (or such other clearing corporation, as applicable), subject to a Holder's right to elect to receive a Warrant in certificated form pursuant to the terms of the Warrant Agency Agreement, in which case this sentence shall not apply.

b) <u>Exercise Price</u>. The exercise price per share of Common Stock under this Warrant shall be \$_____, subject to adjustment hereunder (the "<u>Exercise Price</u>"). In addition, on the Trigger Date, the Exercise Price shall be reduced, and only reduced, to the lesser of (i) the then Exercise Price and (ii) the average of the five (5) VWAPs immediately prior to the Trigger Date (the "<u>Reset Exercise Price</u>", which shall thereafter be the new Exercise Price, subject to further adjustment hereunder, and such 5 Trading Day period shall be referred to herein as a "<u>Measurement Period</u>"). The Company shall notify each Holder of the applicable adjustment to the Exercise Price as of such date (each notice, a "<u>Trigger Date Adjustment Notice</u>"). For purposes of clarification, whether or not the Company provides a Trigger Date Adjustment Notice pursuant to this Section 2(b), each Holder shall receive a number of Warrant Shares based upon the Exercise Price as adjusted pursuant to this Section, regardless of whether a Holder accurately refers to such price in any Notice of Exercise. Any adjustment to the Exercise Price pursuant to this Section shall be effective retroactively to the first Trading Day during such Measurement Period.

c) <u>Cashless Exercise</u>. If at the time of exercise hereof there is no effective registration statement registering, or the prospectus contained therein is not available for the issuance of the Warrant Shares to the Holder, then this Warrant may also be exercised, in whole or in part, at such time by means of a "cashless exercise" in which the Holder shall be entitled to receive a number of Warrant Shares equal to the quotient obtained by dividing [(A-B) (X)] by (A), where:

- (A) = as applicable: (i) the VWAP on the Trading Day immediately preceding the date of the applicable Notice of Exercise if such Notice of Exercise is (1) both executed and delivered pursuant to Section 2(a) hereof on a day that is not a Trading Day or (2) both executed and delivered pursuant to Section 2(a) hereof on a Trading Day prior to the opening of "regular trading hours" (as defined in Rule 600(b) of Regulation NMS promulgated under the federal securities laws) on such Trading Day, (ii) at the option of the Holder, either (y) the VWAP on the Trading Day immediately preceding the date of the applicable Notice of Exercise or (z) the Bid Price of the Common Stock on the principal Trading Market as reported by Bloomberg L.P. as of the time of the Holder's execution of the applicable Notice of Exercise if such Notice of Exercise is executed during "regular trading hours" on a Trading Day and is delivered within two (2) hours thereafter (including until two (2) hours after the close of "regular trading hours" on a Trading Day) pursuant to Section 2(a) hereof or (iii) the VWAP on the date of the applicable Notice of Exercise if such Notice of Exercise is a Trading Day and such Notice of Exercise is both executed and delivered pursuant to Section 2(a) hereof after the close of "regular trading hours" on a Trading Day;
- (B) = the Exercise Price of this Warrant, as adjusted hereunder; and
- (X) = the number of Warrant Shares that would be issuable upon exercise of this Warrant in accordance with the terms of this Warrant if such exercise were by means of a cash exercise rather than a cashless exercise.

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

Notwithstanding anything herein to the contrary, on the Termination Date, this Warrant shall be automatically exercised via cashless exercise pursuant to this Section 2(c).

- d) Mechanics of Exercise.
 - i. Delivery of Warrant Shares Upon Exercise. The Company shall cause the Warrant Shares purchased hereunder to be transmitted by the Transfer Agent to the Holder by crediting the account of the Holder's or its designee's balance account with The Depository Trust Company through its Deposit or Withdrawal at Custodian system ("DWAC") if the Company is then a participant in such system and either (A) there is an effective registration statement permitting the issuance of the Warrant Shares to or resale of the Warrant Shares by Holder or (B) this Warrant is being exercised via cashless exercise, and otherwise by physical delivery of a certificate, registered in the Company's share register in the name of the Holder or its designee, for the number of Warrant Shares to which the Holder is entitled pursuant to such exercise to the address specified by the Holder in the Notice of Exercise by the date that is the earliest of (i) two (2) Trading Days after the delivery to the Company of the Notice of Exercise, (ii) one (1) Trading Day after delivery of the aggregate Exercise Price to the Company and (iii) the number of Trading Days comprising the Standard Settlement Period after the delivery to the Company of the Notice of Exercise (such date, the "Warrant Share Delivery Date"). Upon delivery of the Notice of Exercise, the Holder shall be deemed for all corporate purposes to have become the holder of record of the Warrant Shares with respect to which this Warrant has been exercised, irrespective of the date of delivery of the Warrant Shares, provided that payment of the aggregate Exercise Price (other than in the case of a cashless exercise) is received within the earlier of (i) two (2) Trading Days and (ii) the number of Trading Days comprising the Standard Settlement Period following delivery of the Notice of Exercise. If the Company fails for any reason to deliver to the Holder the Warrant Shares subject to a Notice of Exercise by the Warrant Share Delivery Date, the Company shall pay to the Holder, in cash, as liquidated damages and not as a penalty, for each \$1,000 of Warrant Shares subject to such exercise (based on the VWAP of the Common Stock on the date of the applicable Notice of Exercise), \$10 per Trading Day (increasing to \$20 per Trading Day on the fifth Trading Day after such liquidated damages begin to accrue) for each Trading Day after such Warrant Share Delivery Date until such Warrant Shares are delivered or Holder rescinds such exercise. The Company agrees to maintain a transfer agent that is a participant in the FAST program so long as this Warrant remains outstanding and exercisable. As used herein, "Standard Settlement Period" means the standard settlement period, expressed in a number of Trading Days, on the Company's primary Trading Market with respect to the Common Stock as in effect on the date of delivery of the Notice of Exercise.

- ii. <u>Delivery of New Warrants Upon Exercise</u>. If this Warrant shall have been exercised in part, the Company shall, at the request of a Holder and upon surrender of this Warrant certificate, at the time of delivery of the Warrant Shares, deliver to the Holder a new Warrant evidencing the rights of the Holder to purchase the unpurchased Warrant Shares called for by this Warrant, which new Warrant shall in all other respects be identical with this Warrant.
- iii. <u>Rescission Rights</u>. If the Company fails to cause the Transfer Agent to transmit to the Holder the Warrant Shares pursuant to Section 2(d)(i) by the Warrant Share Delivery Date, then the Holder will have the right to rescind such exercise.
- iv. Compensation for Buy-In on Failure to Timely Deliver Warrant Shares Upon Exercise. In addition to any other rights available to the Holder, if the Company fails to cause the Transfer Agent to transmit to the Holder the Warrant Shares in accordance with the provisions of Section 2(d)(i) above pursuant to an exercise on or before the Warrant Share Delivery Date (other than any such failure that is solely due to any action or inaction by the Holder with respect to such exercise), and if after such date the Holder is required by its broker to purchase (in an open market transaction or otherwise, provided such purchases shall be made in a commercially reasonable manner at prevailing market prices) or the Holder's brokerage firm otherwise purchases, shares of Common Stock to deliver in satisfaction of a sale by the Holder of the Warrant Shares which the Holder anticipated receiving upon such exercise (a "Buy-In"), then the Company shall (A) pay in cash to the Holder the amount, if any, by which (x) the Holder's total purchase price (including commercially reasonable brokerage commissions, if any) for the shares of Common Stock so purchased exceeds (y) the amount obtained by multiplying (1) the number of Warrant Shares that the Company was required to deliver to the Holder in connection with the exercise at issue times (2) the price at which the sell order giving rise to such purchase obligation was executed, and (B) at the option of the Holder, either reinstate the portion of the Warrant and equivalent number of Warrant Shares for which such exercise was not honored (in which case such exercise shall be deemed rescinded) or deliver to the Holder the number of shares of Common Stock that would have been issued had the Company timely complied with its exercise and delivery obligations hereunder. For example, if the Holder purchases Common Stock having a total purchase price of \$11,000 to cover a Buy-In with respect to an attempted exercise of shares of Common Stock with an aggregate sale price giving rise to such purchase obligation of \$10,000, under clause (A) of the immediately preceding sentence the Company shall be required to pay the Holder \$1,000. The Holder shall provide the Company written notice indicating the amounts payable to the Holder in respect of the Buy-In and, upon request of the Company, evidence of the amount of such loss. Nothing herein shall limit a Holder's right to pursue any other remedies available to it hereunder, at law or in equity including, without limitation, a decree of specific performance and/or injunctive relief with respect to the Company's failure to timely deliver shares of Common Stock upon exercise of the Warrant as required pursuant to the terms hereof.

- v. <u>No Fractional Shares or Scrip</u>. No fractional shares or scrip representing fractional shares shall be issued upon the exercise of this Warrant. As to any fraction of a share which the Holder would otherwise be entitled to purchase upon such exercise, the Company shall, at its election, either pay a cash adjustment in respect of such final fraction in an amount equal to such fraction multiplied by the Exercise Price or round up to the next whole share.
- vi. <u>Charges, Taxes and Expenses</u>. Issuance of Warrant Shares shall be made without charge to the Holder for any issue or transfer tax or other incidental expense in respect of the issuance of such Warrant Shares, all of which taxes and expenses shall be paid by the Company, and such Warrant Shares shall be issued in the name of the Holder or in such name or names as may be directed by the Holder; <u>provided</u>, <u>however</u>, that, in the event that Warrant Shares are to be issued in a name other than the name of the Holder, this Warrant when surrendered for exercise shall be accompanied by the Assignment Form attached hereto duly executed by the Holder and the Company may require, as a condition thereto, the payment of a sum sufficient to reimburse it for any transfer tax incidental thereto. The Company shall pay all Transfer Agent fees required for same-day processing of any Notice of Exercise and all fees to the Depository Trust Company (or another established clearing corporation performing similar functions) required for same-day electronic delivery of the Warrant Shares.
- vii. <u>Closing of Books</u>. The Company will not close its stockholder books or records in any manner which prevents the timely exercise of this Warrant, pursuant to the terms hereof.

Holder's Exercise Limitations. The Company shall not effect any exercise of this Warrant, and a Holder shall not have the e) right to exercise any portion of this Warrant, pursuant to Section 2 or otherwise, to the extent that after giving effect to such issuance after exercise as set forth on the applicable Notice of Exercise, the Holder (together with the Holder's Affiliates, and any other Persons acting as a group together with the Holder or any of the Holder's Affiliates (such Persons, "Attribution Parties")), would beneficially own in excess of the Beneficial Ownership Limitation (as defined below). For purposes of the foregoing sentence, the number of shares of Common Stock beneficially owned by the Holder and its Affiliates and Attribution Parties shall include the number of shares of Common Stock issuable upon exercise of this Warrant with respect to which such determination is being made, but shall exclude the number of shares of Common Stock which would be issuable upon (i) exercise of the remaining, nonexercised portion of this Warrant beneficially owned by the Holder or any of its Affiliates or Attribution Parties and (ii) exercise or conversion of the unexercised or nonconverted portion of any other securities of the Company (including, without limitation, any other Common Stock Equivalents) subject to a limitation on conversion or exercise analogous to the limitation contained herein beneficially owned by the Holder or any of its Affiliates or Attribution Parties. Except as set forth in the preceding sentence, for purposes of this Section 2(e), beneficial ownership shall be calculated in accordance with Section 13(d) of the Exchange Act and the rules and regulations promulgated thereunder, it being acknowledged by the Holder that the Company is not representing to the Holder that such calculation is in compliance with Section 13(d) of the Exchange Act and the Holder is solely responsible for any schedules required to be filed in accordance therewith. To the extent that the limitation contained in this Section 2(e) applies, the determination of whether this Warrant is exercisable (in relation to other securities owned by the Holder together with any Affiliates and Attribution Parties) and of which portion of this Warrant is exercisable shall be in the sole discretion of the Holder, and the submission of a Notice of Exercise shall be deemed to be the Holder's determination of whether this Warrant is exercisable (in relation to other securities owned by the Holder together with any Affiliates and Attribution Parties) and of which portion of this Warrant is exercisable, in each case subject to the Beneficial Ownership Limitation, and the Company shall have no obligation to verify or confirm the accuracy of such determination and shall have no liability for exercises of this Warrant that are not in compliance with the Beneficial Ownership Limitation, provided this limitation of liability shall not apply if the Holder has detrimentally relied on outstanding share information provided by the Company or the Transfer Agent. In addition, a determination as to any group status as contemplated above shall be determined in accordance with Section 13(d) of the Exchange Act and the rules and regulations promulgated thereunder. For purposes of this Section 2(e), in determining the number of outstanding shares of Common Stock, a Holder may rely on the number of outstanding shares of Common Stock as reflected in (A) the Company's most recent periodic or annual report filed with the Commission, as the case may be, (B) a more recent public announcement by the Company or (C) a more recent written notice by the Company or the Transfer Agent setting forth the number of shares of Common Stock outstanding. Upon the written or oral request of a Holder, the Company shall within two Trading Days confirm orally and in writing to the Holder the number of shares of Common Stock then outstanding. In any case, the number of outstanding shares of Common Stock shall be determined after giving effect to the conversion or exercise of securities of the Company, including this Warrant, by the Holder or its Affiliates or Attribution Parties since the date as of which such number of outstanding shares of Common Stock was reported. The "Beneficial Ownership Limitation" shall be 4.99% (or, upon election by a Holder prior to the issuance of any Warrants, 9.99%) of the number of shares of the Common Stock outstanding immediately after giving effect to the issuance of shares of Common Stock issuable upon exercise of this Warrant. The Holder, upon notice to the Company, may increase or decrease the Beneficial Ownership Limitation provisions of this Section 2(e), provided that the Beneficial Ownership Limitation in no event exceeds 9.99% of the number of shares of the Common Stock outstanding immediately after giving effect to the issuance of shares of Common Stock upon exercise of this Warrant held by the Holder and the provisions of this Section 2(e) shall continue to apply. Any increase in the Beneficial Ownership Limitation will not be effective until the 61st day after such notice is delivered to the Company. The provisions of this paragraph shall be construed and implemented in a manner otherwise than in strict conformity with the terms of this Section 2(e) to correct this paragraph (or any portion hereof) which may be defective or inconsistent with the intended Beneficial Ownership Limitation herein contained or to make changes or supplements necessary or desirable to properly give effect to such limitation. The limitations contained in this paragraph shall apply to a successor holder of this Warrant.

Section 3. Certain Adjustments.

a) <u>Stock Dividends and Splits</u>. If the Company, at any time while this Warrant is outstanding: (i) pays a stock dividend or otherwise makes a distribution or distributions on shares of its Common Stock or any other equity or equity equivalent securities payable in shares of Common Stock (which, for avoidance of doubt, shall not include any shares of Common Stock issued by the Company upon exercise of this Warrant), (ii) subdivides outstanding shares of Common Stock into a larger number of shares, (iii) combines (including by way of reverse stock split) outstanding shares of Common Stock into a smaller number of shares, or (iv) issues by reclassification of shares of the Common Stock any shares of capital stock of the Company, then in each case the Exercise Price shall be multiplied by a fraction of which the numerator shall be the number of shares of Common Stock outstanding immediately after such event, and the number of shares issuable upon exercise of this Warrant shall be proportionately adjusted such that the aggregate Exercise Price of this Warrant shall remain unchanged. Any adjustment made pursuant to this Section 3(a) shall become effective immediately after the record date for the determination of stockholders entitled to receive such dividend or distribution and shall become effective immediately after the effective date in the case of a subdivision, combination or reclassification.

b) <u>Adjustment Upon Issuance of Shares of Common Stock</u>. If and whenever on or after the date of issuance (the "<u>Issuance</u> <u>Date</u>"), the Company issues or sells, or in accordance with this Section 3(b) is deemed to have issued or sold, any shares of Common Stock and/or Common Stock Equivalents (including the issuance or sale of shares of Common Stock owned or held by or for the account of the Company, but excluding any Exempt Issuance issued or sold or deemed to have been issued or sold) for a consideration per share (the "<u>New Issuance Price</u>") less than a price equal to the Exercise Price in effect immediately prior to such issuance or sale or deemed issuance or sale (such Exercise Price then in effect is referred to herein as the "Applicable Price") (the foregoing a "Dilutive Issuance"), then simultaneously with the consummation (or, if earlier, the announcement) of each such Dilutive Issuance, the Exercise Price then in effect shall be reduced to an amount equal to the New Issuance Price. For all purposes of the foregoing (including, without limitation, determining the adjusted Exercise Price and the New Issuance Price under this Section 3(b)), the following shall be applicable:

Issuance of Options. If the Company in any manner grants or sells any rights, warrants or options to subscribe (i) for or purchase shares of preferred stock and/or Common Stock or Common Stock Equivalents ("Options") and the lowest price per share for which one share of Common Stock is at any time issuable upon the exercise of any such Option or upon conversion, exercise or exchange of any Common Stock Equivalents issuable upon exercise of any such Option or otherwise pursuant to the terms thereof is less than the Applicable Price, then such share of Common Stock shall be deemed to be outstanding and to have been issued and sold by the Company at the time of the granting or sale of such Option for such price per share. For purposes of this Section 3(b)(i), the "lowest price per share for which one share of Common Stock is issuable upon the exercise of any such Options or upon conversion, exercise or exchange of any Common Stock Equivalents issuable upon exercise of any such Option or otherwise pursuant to the terms thereof" shall be equal to (1) the lower of (x) the sum of the lowest amounts of consideration (if any) received or receivable by the Company with respect to any one share of Common Stock upon the granting or sale of such Option, upon exercise of such Option and upon conversion, exercise or exchange of any Common Stock Equivalents issuable upon exercise of such Option or otherwise pursuant to the terms thereof and (y) the lowest exercise price set forth in such Option for which one share of Common Stock is issuable upon the exercise of any such Options or upon conversion, exercise or exchange of any Common Stock Equivalents issuable upon exercise of any such Option or otherwise pursuant to the terms thereof. Except as contemplated below, no further adjustment of the Exercise Price shall be made upon the actual issuance of such shares of Common Stock or of such Common Stock Equivalents upon the exercise of such Options or otherwise pursuant to the terms of or upon the actual issuance of such shares of Common Stock upon conversion, exercise or exchange of such Common Stock Equivalents. This Section 3(b)(i) shall not apply to any Exempt Issuance.

Issuance of Common Stock Equivalents. If the Company in any manner issues or sells any Common Stock (ii) Equivalents and the lowest price per share for which one share of Common Stock is at any time issuable upon the conversion. exercise or exchange thereof or otherwise pursuant to the terms thereof is less than the Exercise Price, then such share of Common Stock shall be deemed to be outstanding and to have been issued and sold by the Company at the time of the issuance or sale of such Common Stock Equivalents for such price per share. For the purposes of this Section 3(b)(ii), the "lowest price per share for which one share of Common Stock is issuable upon the conversion, exercise or exchange thereof or otherwise pursuant to the terms thereof" shall be equal to (1) the lower of (x) the sum of the lowest amounts of consideration (if any) received or receivable by the Company with respect to one share of Common Stock upon the issuance or sale of the Common Stock Equivalent and upon conversion, exercise or exchange of such Common Stock Equivalent or otherwise pursuant to the terms thereof and (y) the lowest conversion price set forth in such Common Stock Equivalent for which one share of Common Stock is issuable upon conversion, exercise or exchange thereof or otherwise pursuant to the terms thereof minus (2) the sum of all amounts paid or payable to the holder of such Common Stock Equivalent (or any other Person) upon the issuance or sale of such Common Stock Equivalent plus the value of any other consideration received or receivable by, or benefit conferred on, the holder of such Common Stock Equivalent (or any other Person). Except as contemplated below, no further adjustment of the Exercise Price shall be made upon the actual issuance of such shares of Common Stock upon conversion, exercise or exchange of such Common Stock Equivalents or otherwise pursuant to the terms thereof, and if any such issuance or sale of such Common Stock Equivalents is made upon exercise of any Options for which adjustment of the Warrant has been or is to be made pursuant to other provisions of this Section 3(b), except as contemplated below, no further adjustment of the Exercise Price shall be made by reason of such issuance or sale.

(iii) <u>Change in Option Price or Rate of Conversion</u>. If the purchase or exercise price provided for in any Options, the additional consideration, if any, payable upon the issue, conversion, exercise or exchange of any Common Stock Equivalents, or the rate at which any Common Stock Equivalents are convertible into or exercisable or exchangeable for shares of Common Stock increases or decreases at any time (other than proportional changes in conversion or exercise prices, as applicable, in connection with an event referred to in Section 3(a)), the Exercise Price in effect at the time of such increase or decrease shall be adjusted to the Exercise Price which would have been in effect at such time had such Options or Common Stock Equivalents provided for such increased or decreased purchase price, additional consideration or increased or decreased conversion rate, as the case may be, at the time initially granted, issued or sold. For purposes of this Section 3(b)(iii), if the terms of any Option or Common Stock Equivalents that was outstanding as of the Issuance Date are increased or decreased in the manner described in the immediately preceding sentence, then such Option or Common Stock Equivalents and the shares of Common Stock deemed issuable upon exercise, conversion or exchange thereof shall be deemed to have been issued as of the date of such increase or decrease. No adjustment pursuant to this Section 3(b) shall be made if such adjustment would result in an increase of the Exercise Price then in effect.

Calculation of Consideration Received. If any Option and/or Common Stock Equivalent and/or Adjustment (iv) Right is issued in connection with the issuance or sale or deemed issuance or sale of any other securities of the Company (as determined by the Holder, the "Primary Security", and such Option and/or Common Stock Equivalent and/or Adjustment Right, the "Secondary Securities" and together with the Primary Security, each a "Unit"), together comprising one integrated transaction, the aggregate consideration per share of Common Stock with respect to such Primary Security shall be deemed to be the lower of (x) the purchase price of such Unit and (y) if such Primary Security is an Option and/or Common Stock Equivalent, the lowest price per share for which one share of Common Stock is at any time issuable upon the exercise or conversion of the Primary Security in accordance with Section 3(b)(i) or Section 3(b)(ii) above. If any shares of Common Stock, Options or Common Stock Equivalents are issued or sold or deemed to have been issued or sold for cash, the consideration received therefor will be deemed to be the net amount of consideration received by the Company therefor. If any shares of Common Stock, Options or Common Stock Equivalents are issued or sold for a consideration other than cash, the amount of such consideration received by the Company will be the fair value of such consideration, except where such consideration consists of publicly traded securities, in which case the amount of consideration received by the Company for such securities will be the arithmetic average of the VWAPs of such security for each of the five (5) Trading Days immediately preceding the date of receipt. If any shares of Common Stock, Options or Common Stock Equivalents are issued to the owners of the non-surviving entity in connection with any merger in which the Company is the surviving entity, the amount of consideration therefor will be deemed to be the fair value of such portion of the net assets and business of the non-surviving entity as is attributable to such shares of Common Stock, Options or Common Stock Equivalents (as the case may be). The fair value of any consideration other than cash or publicly traded securities will be determined jointly by the Company and the Holder. If such parties are unable to reach agreement within ten (10) days after the occurrence of an event requiring valuation (the "Valuation Event"), the fair value of such consideration will be determined within five (5) Trading Days after the tenth (10th) day following such Valuation Event by an independent, reputable appraiser jointly selected by the Company and the Holder. The determination of such appraiser shall be final and binding upon all parties absent manifest error and the fees and expenses of such appraiser shall be borne by the Company. For purposes of hereof, "Adjustment Right" means any right granted with respect to any securities issued in connection with, or with respect to, any issuance or sale (or deemed issuance or sale in accordance with this Section 3(b)) of shares of Common Stock (other than rights of the type described in Section 3(c) and Section 3(d) hereof) that could result in a decrease in the net consideration received by the Company in connection with, or with respect to, such securities (including, without limitation, any cash settlement rights, cash adjustment or other similar rights).

(vi) <u>Record Date</u>. If the Company takes a record of the holders of shares of Common Stock for the purpose of entitling them (A) to receive a dividend or other distribution payable in shares of Common Stock, Options or in Common Stock Equivalents or (B) to subscribe for or purchase shares of Common Stock, Options or Common Stock Equivalents, then such record date will be deemed to be the date of the issuance or sale of the shares of Common Stock deemed to have been issued or sold upon the declaration of such dividend or the making of such other distribution or the date of the granting of such right of subscription or purchase (as the case may be).

c) <u>Subsequent Rights Offerings</u>. In addition to any adjustments pursuant to Section 3(a) above, if at any time the Company grants, issues or sells any Common Stock Equivalents or rights to purchase stock, warrants, securities or other property pro rata to the record holders of any class of shares of Common Stock (the "<u>Purchase Rights</u>"), then the Holder will be entitled to acquire, upon the terms applicable to such Purchase Rights, the aggregate Purchase Rights which the Holder could have acquired if the Holder had held the number of shares of Common Stock acquirable upon complete exercise of this Warrant (without regard to any limitations on exercise hereof, including without limitation, the Beneficial Ownership Limitation) immediately before the date on which a record is taken for the grant, issuance or sale of such Purchase Rights (provided, however, that, to the extent that the Holder's right to participate in any such Purchase Right would result in the Holder exceeding the Beneficial Ownership Limitation, then the Holder shall not be entitled to participate in such Purchase Right to such extent (or beneficial ownership of such shares of Common Stock as a result of such Purchase Right to such extent) and such Purchase Right to such extent shall be held in abeyance for the Holder until such time, if ever, as its right thereto would not result in the Holder exceeding the Beneficial Ownership Limitation).

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

Fundamental Transaction. If, at any time while this Warrant is outstanding, (i) the Company, directly or indirectly, in one or e) more related transactions effects any merger or consolidation of the Company with or into another Person, (ii) the Company or any Subsidiary. directly or indirectly, effects any sale, lease, license, assignment, transfer, conveyance or other disposition of all or substantially all of its assets in one or a series of related transactions, (iii) any, direct or indirect, purchase offer, tender offer or exchange offer (whether by the Company or another Person) is completed pursuant to which holders of Common Stock are permitted to sell, tender or exchange their shares for other securities, cash or property and has been accepted by the holders of 50% or more of the outstanding Common Stock or 50% or more of the voting power of the common equity of the Company, (iv) the Company, directly or indirectly, in one or more related transactions effects any reclassification, reorganization or recapitalization of the Common Stock or any compulsory share exchange pursuant to which the Common Stock is effectively converted into or exchanged for other securities, cash or property, or (v) the Company, directly or indirectly, in one or more related transactions consummates a stock or share purchase agreement or other business combination (including, without limitation, a reorganization, recapitalization, spin-off, merger or scheme of arrangement) with another Person or group of Persons whereby such other Person or group acquires 50% or more of the outstanding shares of Common Stock or 50% or more of the voting power of the common equity of the Company (each a "Fundamental Transaction"), then, upon any subsequent exercise of this Warrant, the Holder shall have the right to receive, for each Warrant Share that would have been issuable upon such exercise immediately prior to the occurrence of such Fundamental Transaction, at the option of the Holder (without regard to any limitation in Section 2(e) on the exercise of this Warrant), the number of shares of Common Stock of the successor or acquiring corporation or of the Company, if it is the surviving corporation, and any additional consideration (the "Alternate Consideration") receivable as a result of such Fundamental Transaction by a holder of the number of shares of Common Stock for which this Warrant is exercisable immediately prior to such Fundamental Transaction (without regard to any limitation in Section 2(e) on the exercise of this Warrant). For purposes of any such exercise, the determination of the Exercise Price shall be appropriately adjusted to apply to such Alternate Consideration based on the amount of Alternate Consideration issuable in respect of one share of Common Stock in such Fundamental Transaction, and the Company shall apportion the Exercise Price among the Alternate Consideration in a reasonable manner reflecting the relative value of any different components of the Alternate Consideration. If holders of Common Stock are given any choice as to the securities, cash or property to be received in a Fundamental Transaction, then the Holder shall be given the same choice as to the Alternate Consideration it receives upon any exercise of this Warrant following such Fundamental Transaction. Notwithstanding anything to the contrary, in the event of a Fundamental Transaction, the Company or any Successor Entity (as defined below) shall, at the Holder's option, exercisable at any time concurrently with, or within 30 days after, the consummation of the Fundamental Transaction (or, if later, the date of the public announcement of the applicable Fundamental Transaction), purchase this Warrant from the Holder by paying to the Holder an amount of cash equal to the Black Scholes Value (as defined below) of the remaining unexercised portion of this Warrant on the date of the consummation of such Fundamental Transaction; provided, however, that, if the Fundamental Transaction is not within the Company's control, including not approved by the Company's Board of Directors, Holder shall only be entitled to receive from the Company or any Successor Entity the same type or form of consideration (and in the same proportion), at the Black Scholes Value of the unexercised portion of this Warrant, that is being offered and paid to the holders of Common Stock of the Company in connection with the Fundamental Transaction, whether that consideration be in the form of cash, stock or any combination thereof, or whether the holders of Common Stock are given the choice to receive from among alternative forms of consideration in connection with the Fundamental Transaction; provided, further, that if holders of Common Stock of the Company are not offered or paid any consideration in such Fundamental Transaction, such holders of Common Stock will be deemed to have received common stock of the Successor Entity (which Entity may be the Company following such Fundamental Transaction) in such Fundamental Transaction. "Black Scholes Value" means the value of this Warrant based on the Black-Scholes Option Pricing Model obtained from the "OV" function on Bloomberg, L.P. ("Bloomberg") determined as of the day of consummation of the applicable contemplated Fundamental Transaction for pricing purposes and reflecting (A) a riskfree interest rate corresponding to the U.S. Treasury rate for a period equal to the time between the date of the public announcement of the applicable Fundamental Transaction and the Termination Date, (B) an expected volatility equal to the greater of 100% and the 100 day volatility obtained from the HVT function on Bloomberg (determined utilizing a 365 day annualization factor) as of the Trading Day immediately following the public announcement of the applicable contemplated Fundamental Transaction, (C) the underlying price per share used in such calculation shall be the greater of (i) the sum of the price per share being offered in cash, if any, plus the value of any non-cash consideration, if any, being offered in such Fundamental Transaction and (ii) the highest VWAP during the period beginning on the Trading Day immediately preceding the public announcement of the applicable contemplated Fundamental Transaction (or the consummation of the applicable Fundamental Transaction, if earlier) and ending on the Trading Day of the Holder's request pursuant to this Section 3(d) and (D) a remaining option time equal to the time between the date of the public announcement of the applicable contemplated Fundamental Transaction and the Termination Date and (E) a zero cost of borrow. The payment of the Black Scholes Value will be made by wire transfer of immediately available funds (or such other consideration) within five Business Days of the Holder's election (or, if later, on the date of consummation of the Fundamental Transaction). The Company shall cause any successor entity in a Fundamental Transaction in which the Company is not the survivor (the "Successor Entity") to assume in writing all of the obligations of the Company under this Warrant in accordance with the provisions of this Section 3(e) pursuant to written agreements in form and substance reasonably satisfactory to the Holder and approved by the Holder (without unreasonable delay) prior to such Fundamental Transaction and shall, at the option of the Holder, deliver to the Holder in exchange for this Warrant a security of the Successor Entity evidenced by a written instrument substantially similar in form and substance to this Warrant which is exercisable for a corresponding number of shares of capital stock of such Successor Entity (or its parent entity) equivalent to the shares of Common Stock acquirable and receivable upon exercise of this Warrant (without regard to any limitations on the exercise of this Warrant) prior to such Fundamental Transaction, and with an exercise price which applies the exercise price hereunder to such shares of capital stock (but taking into account the relative value of the shares of Common Stock pursuant to such Fundamental Transaction and the value of such shares of capital stock, such number of shares of capital stock and such exercise price being for the purpose of protecting the economic value of this Warrant immediately prior to the consummation of such Fundamental Transaction), and which is reasonably satisfactory in form and substance to the Holder. Upon the occurrence of any such Fundamental Transaction, the Successor Entity shall be added to the term "Company" under this Warrant (so that from and after the occurrence or consummation of such Fundamental Transaction, each and every provision of this Warrant and the other Transaction Documents referring to the "Company" shall refer instead to each of the Company and the Successor Entity or Successor Entities, jointly and severally), and the Successor Entity or Successor Entities, jointly and severally with the Company, may exercise every right and power of the Company prior thereto and the Successor Entity or Successor Entities shall assume all of the obligations of the Company prior thereto under this Warrant and the other Transaction Documents with the same effect as if the Company and such Successor Entity or Successor Entities, jointly and severally, had been named as the Company herein.

f) <u>Calculations</u>. All calculations under this Section 3 shall be made to the nearest cent or the nearest 1/100th of a share, as the case may be. For purposes of this Section 3, the number of shares of Common Stock deemed to be issued and outstanding as of a given date shall be the sum of the number of shares of Common Stock (excluding treasury shares, if any) issued and outstanding.

g) <u>Notice to Holder</u>.

i. <u>Adjustment to Exercise Price</u>. Whenever the Exercise Price is adjusted pursuant to any provision of this Section 3, the Company shall promptly deliver to the Holder by email a notice setting forth the Exercise Price after such adjustment and any resulting adjustment to the number of Warrant Shares and setting forth a brief statement of the facts requiring such adjustment. Notwithstanding any other provision of this Warrant, as to any Warrant not held in certificated form, where this Warrant provides for notice of any event to a Holder, such notice shall be sufficiently given if given to DTC (or any successor depository) pursuant to the procedures of DTC (or such successor depository).

Notice to Allow Exercise by Holder. If (A) the Company shall declare a dividend (or any other distribution in ii. whatever form) on the Common Stock, (B) the Company shall declare a special nonrecurring cash dividend on or a redemption of the Common Stock, (C) the Company shall authorize the granting to all holders of the Common Stock rights or warrants to subscribe for or purchase any shares of capital stock of any class or of any rights, (D) the approval of any stockholders of the Company shall be required in connection with any reclassification of the Common Stock, any consolidation or merger to which the Company (or all of its Subsidiaries, taken as a whole) is a party, any sale or transfer of all or substantially all of its assets, or any compulsory share exchange whereby the Common Stock is converted into other securities, cash or property, or (E) the Company shall authorize the voluntary or involuntary dissolution, liquidation or winding up of the affairs of the Company, then, in each case, the Company shall cause to be delivered by email to the Holder at its last email address as it shall appear upon the Warrant Register of the Company, at least 20 calendar days prior to the applicable record or effective date hereinafter specified, a notice stating (x) the date on which a record is to be taken for the purpose of such dividend, distribution, redemption, rights or warrants, or if a record is not to be taken, the date as of which the holders of the Common Stock of record to be entitled to such dividend, distributions, redemption, rights or warrants are to be determined or (y) the date on which such reclassification, consolidation, merger, sale, transfer or share exchange is expected to become effective or close, and the date as of which it is expected that holders of the Common Stock of record shall be entitled to exchange their shares of the Common Stock for securities, cash or other property deliverable upon such reclassification, consolidation, merger, sale, transfer or share exchange; provided that the failure to deliver such notice or any defect therein or in the delivery thereof shall not affect the validity of the corporate action required to be specified in such notice. To the extent that any notice provided in this Warrant constitutes, or contains, material, non-public information regarding the Company or any of the Subsidiaries, the Company shall simultaneously file such notice with the Commission pursuant to a Current Report on Form 8-K. The Holder shall remain entitled to exercise this Warrant during the period commencing on the date of such notice to the effective date of the event triggering such notice except as may otherwise be expressly set forth herein.

h) <u>Voluntary Adjustment By Company</u>. Subject to the rules and regulations of the Trading Market, the Company may at any time during the term of this Warrant reduce the then current Exercise Price to any amount and for any period of time deemed appropriate by the board of directors of the Company.

Section 4. Transfer of Warrant.

a) <u>Transferability</u>. Subject to compliance with any applicable securities laws, this Warrant and all rights hereunder (including, without limitation, any registration rights) are transferable, in whole or in part, upon surrender of this Warrant at the principal office of the Company or its designated agent, together with a written assignment of this Warrant substantially in the form attached hereto duly executed by the Holder or its agent or attorney and funds sufficient to pay any transfer taxes payable upon the making of such transfer. Upon such surrender and, if required, such payment, the Company shall execute and deliver a new Warrant or Warrants in the name of the assignee or assignees, as applicable, and in the denomination or denominations specified in such instrument of assignment, and shall issue to the assignor a new Warrant evidencing the portion of this Warrant not so assigned, and this Warrant shall promptly be cancelled. Notwithstanding anything herein to the contrary, the Holder shall not be required to physically surrender this Warrant to the Company unless the Holder has assigned this Warrant in full, in which case, the Holder shall surrender this Warrant to the Company within three (3) Trading Days of the date on which the Holder delivers an assignment form to the Company assigning this Warrant in full. The Warrant, if properly assigned in accordance herewith, may be exercised by a new holder for the purchase of Warrant Shares without having a new Warrant issued.

b) <u>New Warrants</u>. If this Warrant is not held in global form through DTC (or any successor depositary), this Warrant may be divided or combined with other Warrants upon presentation hereof at the aforesaid office of the Company, together with a written notice specifying the names and denominations in which new Warrants are to be issued, signed by the Holder or its agent or attorney. Subject to compliance with Section 4(a), as to any transfer which may be involved in such division or combination, the Company shall execute and deliver a new Warrant or Warrants in exchange for the Warrant or Warrants to be divided or combined in accordance with such notice. All Warrants issued on transfers or exchanges shall be dated the initial issuance date of this Warrant and shall be identical with this Warrant except as to the number of Warrant Shares issuable pursuant thereto.

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

Section 5. Miscellaneous.

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

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

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

d) <u>Authorized Shares</u>.

The Company covenants that, during the period the Warrant is outstanding, it will reserve from its authorized and unissued Common Stock a sufficient number of shares to provide for the issuance of the Warrant Shares upon the exercise of any purchase rights under this Warrant. The Company further covenants that its issuance of this Warrant shall constitute full authority to its officers who are charged with the duty of issuing the necessary Warrant Shares upon the exercise of the purchase rights under this Warrant. The Company will take all such reasonable action as may be necessary to assure that such Warrant Shares may be issued as provided herein without violation of any applicable law or regulation, or of any requirements of the Trading Market upon which the Common Stock may be listed. The Company covenants that all Warrant Shares which may be issued upon the exercise of the purchase rights represented by this Warrant will, upon exercise of the purchase rights represented by this Warrant and payment for such Warrant Shares in accordance herewith, be duly authorized, validly issued, fully paid and nonassessable and free from all taxes, liens and charges created by the Company in respect of the issue thereof (other than taxes in respect of any transfer occurring contemporaneously with such issue).

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

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

Governing Law. All questions concerning the construction, validity, enforcement and interpretation of this Warrant shall be e) governed by and construed and enforced in accordance with the internal laws of the State of New York, without regard to the principles of conflicts of law thereof. Each party agrees that all legal proceedings concerning the interpretations, enforcement and defense of the transactions contemplated by this Warrant (whether brought against a party hereto or their respective affiliates, directors, officers, shareholders, partners, members, employees or agents) shall be commenced exclusively in the state and federal courts sitting in the City of New York. Each party hereby irrevocably submits to the exclusive jurisdiction of the state and federal courts sitting in the City of New York, Borough of Manhattan for the adjudication of any dispute hereunder or in connection herewith or with any transaction contemplated hereby or discussed herein, and hereby irrevocably waives, and agrees not to assert in any suit, action or proceeding, any claim that it is not personally subject to the jurisdiction of any such court, that such suit, action or proceeding is improper or is an inconvenient venue for such proceeding. Each party hereby irrevocably waives personal service of process and consents to process being served in any such suit, action or proceeding by mailing a copy thereof via registered or certified mail or overnight delivery (with evidence of delivery) to such party at the address in effect for notices to it under this Warrant and agrees that such service shall constitute good and sufficient service of process and notice thereof. Nothing contained herein shall be deemed to limit in any way any right to serve process in any other manner permitted by law. If either party shall commence an action, suit or proceeding to enforce any provisions of this Warrant, the prevailing party in such action, suit or proceeding shall be reimbursed by the other party for their reasonable attorneys' fees and other costs and expenses incurred with the investigation, preparation and prosecution of such action or proceeding.

f) <u>Restrictions</u>. The Holder acknowledges that the Warrant Shares acquired upon the exercise of this Warrant, if not registered, and the Holder does not utilize cashless exercise, will have restrictions upon resale imposed by state and federal securities laws. The Holder further acknowledges that neither this Warrant and the Warrant Shares acquired upon exercise of this Warrant are not, and will not be, qualified for distribution in any Province or Territory of Canada. The Holder cannot offer or sell this Warrant or the Warrant Shares acquired upon the exercise of this Warrant: (i) to a Person resident in Canada or a Person acquiring such Warrant or Warrant Shares for the benefit of another Person resident in Canada; or (ii) on any "marketplace" (as such term is defined in National Instrument 21-101 – *Marketplace Operation*) in Canada.

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

h) Notices. Any and all notices or other communications or deliveries to be provided by the Holders hereunder including, without limitation, any Notice of Exercise, shall be in writing and delivered personally, by e-mail, or sent by a nationally recognized overnight courier service, addressed to the Company, at 642 Newton Yardley Road, Suite 200, Newton, Pennsylvania 18940, Attention: Jeffrey Mathiesen, email address: jmathiesen@heliusmedical.com, with a copy (for informational purposes only) to Honigman LLP, 650 Trade Centre Way, Suite 200, Kalamazoo, MI 49002, Attention: Phillip D. Torrence, e-mail address: ptorrence@honigman.com, or such other email address or address as the Company may specify for such purposes by notice to the Holders. Any and all notices or other communications or deliveries to be provided by the Company hereunder shall be in writing and delivered personally, by e-mail, or sent by a nationally recognized overnight courier service addressed to each Holder at the e-mail address or address of such Holder appearing on the books of the Company. Any notice or other communication or deliveries hereunder shall be deemed given and effective on the earliest of (i) the time of transmission, if such notice or communication is delivered via e-mail at the e-mail address set forth in this Section prior to 5:30 p.m. (New York City time) on any date, (ii) the next Trading Day after the time of transmission, if such notice or communication is delivered via e-mail at the e-mail address set forth in this Section on a day that is not a Trading Day or later than 5:30 p.m. (New York City time) on any Trading Day, (iii) the second Trading Day following the date of mailing, if sent by U.S. nationally recognized overnight courier service, or (iv) upon actual receipt by the party to whom such notice is required to be given. To the extent that any notice provided hereunder constitutes, or contains, material, non-public information regarding the Company or any Subsidiaries, the Company shall simultaneously file such notice with the Commission pursuant to a Current Report on Form 8-K.

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

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

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

l) <u>Amendment</u>. This Warrant may be modified or amended or the provisions hereof waived with the written consent of the Company, on the one hand, and the Holder or the beneficial owner of this Warrant, on the other hand.

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

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

o) <u>Warrant Agency Agreement.</u> If this Warrant is held in global form through DTC (or any successor depositary), this Warrant is issued subject to the Warrant Agency Agreement. To the extent any provision of this Warrant conflicts with the express provisions of the Warrant Agency Agreement, the provisions of this Warrant shall govern and be controlling.

(Signature Page Follows)

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

HELIUS MEDICAL TECHNOLOGIES, INC.

By:

Name: Title:

NOTICE OF EXERCISE

TO: HELIUS MEDICAL TECHNOLOGIES, INC.

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

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

 \Box in lawful money of the United States; or

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

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

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

[SIGNATURE OF HOLDER]

 Name of Investing Entity:

 Signature of Authorized Signatory of Investing Entity:

 Name of Authorized Signatory:

 Title of Authorized Signatory:

 Date:

ASSIGNMENT FORM

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

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

Name:	
	(Please Print)
Address:	
	(Please Print)
Phone Number:	
Email Address:	
Dated:,,,	
Holder's Signature:	
Holder's Address:	

Consent of Independent Registered Public Accounting Firm

Helius Medical Technologies, Inc. Newtown, Pennsylvania

We hereby consent to the incorporation by reference in the Prospectus constituting a part of this Registration Statement of our report dated March 14, 2022, relating to the consolidated financial statements of Helius Medical Technologies, Inc., appearing in the Company's Annual Report on Form 10-K for the year ended December 31, 2021. Our report contains an explanatory paragraph regarding the Company's ability to continue as a going concern.

We also consent to the reference to us under the caption "Experts" in the Prospectus.

/s/ BDO USA, LLP Philadelphia, Pennsylvania August 4, 2022

Calculation of Filing Fee Table

FORM S-1 (Form Type)

Helius Medical Technologies, Inc.

(Exact Name of Registrant as Specified in its Charter)

Newly Registered Securities

	Security Type	Security Class Title	Fee Calculation or Carry Forward Rule	Amount Registered	Proposed Maximum Offering price Maximum Aggregate Offering Price Per Unit	Maximum Aggregate Offering Price	Fee Rate		mount of gistration Fee
Fees to be Paid	Equity	Shares of Class A Common Stock issuable upon exercise of Public Warrants	Rule 457(o)	_	_	\$ 24,750,000	0.0000927	\$	1,529.55
Fees Previously		Wartanto	111111 107 (0)			\$ 21,750,000	01000002/	Ψ	1,020100
Paid				-	-	\$ 15,000,000	0.0000927	\$	1,390.50
	Equity	Class A Common Stock(3)	Rule 457(o)						
	Equity	Public Warrants(4)	Other						
	Equity	Shares of Class A Common Stock issuable upon exercise of Public Warrants	Rule 457(o)						
	Equity	Pre-funded warrants(3)(4)	Other						
	Equity	Shares of Class A Common Stock issuable upon exercise of pre- funded warrants(3)	Rule 457(o)						
Total Offering Amounts						\$ 39,750,000.00		\$	3,684.83
Total Fees Previously Pa								\$	2,920.05
Total Fee Offsets								\$	0.00
Net Fee Due								\$	764.78

Estimated solely for the purpose of calculating the registration fee pursuant Rule 457(o) under the Securities Act of 1933, as amended (the "Securities Act").

- (1) Pursuant to Rule 416(a) under the Securities Act, this registration statement shall also cover an indeterminate number of shares that may be issued and resold resulting from stock splits, stock dividends or similar transactions.
- (2) The proposed maximum aggregate offering price of the common stock will be reduced on a dollar-for-dollar basis based on the offering price of any pre-funded warrants issued in the offering, and the proposed maximum aggregate offering price of the pre-funded warrants to be issued in the offering will be reduced on a dollar-for-dollar basis based on the offering price of any common stock issued in the offering. Accordingly, the proposed maximum aggregate offering price of the common stock, pre-funded warrants and Public Warrants (including the common stock issuable upon exercise of the pre-funded warrants), if any, is \$15,000,000.

(3) No fee pursuant to Rule 457(g) of the Securities Act.