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

#### **SCHEDULE 14A**

# PROXY STATEMENT PURSUANT TO SECTION 14(a) OF THE SECURITIES EXCHANGE ACT OF 1934

Filed by the Registrant  $\boxtimes$ 

Filed by a Party other than the Registrant $\Box$
Check the appropriate box:  □ Preliminary Proxy Statement □ Confidential, for Use of the Commission Only (as permitted by Rule 14a-6(e)(2)) □ Definitive Proxy Statement □ Definitive Additional Materials □ Soliciting Material Pursuant to §240.14a-11(c) or §240.14a-2  VirnetX Holding Corporation
(Name of Registrant as Specified In Its Charter)
(Name of Person(s) Filing Proxy Statement, if other than the Registrant)
Payment of Filing Fee (Check the appropriate box):  No fee required.  Fee paid previously with preliminary materials.  Fee computed on table in exhibit required by Item 25(b) per Exchange Act Rules 14a6(i)(1) and 0-11.

VirnetX Holding Corporation 308 Dorla Court Zephyr Cove, NV 89448 www.virnetx.com May 18, 2022



To the Stockholders of VirnetX Holding Corporation:

You recently received our Notice of Internet Availability of Proxy Materials (other than those who previously requested electronic or paper delivery) containing instructions on how to access our proxy materials for the 2022 Annual Meeting of Stockholders of VirnetX Holding Corporation ("VirnetX," the "Company," "we," "us," or similar term) and vote your shares.

On May 13, 2022, we filed an amendment to our Annual Report on Form 10-K for the fiscal year ended December 31, 2021 (the "Form 10-K/A") to include restated financial statements and related amended disclosure for the reasons set forth in the "Explanatory Note" in the Form 10-K/A.

The Form 10-K/A and the other proxy materials are available online. If you are an objecting or non-objecting beneficial owner (that is, if your shares are held at a brokerage), go to <a href="https://central.proxyvote.com/pv/web">https://central.proxyvote.com/pv/web</a>, where you will need to enter your control identification number located on the Proxy Card, received from Broadridge Financial Solutions, Inc. and your company-issued password, received from us. If you are a registered stockholder, go to <a href="https://www.iproxydirect.com/VHC">www.iproxydirect.com/VHC</a>, where you will need to enter the control identification number, request identification number, and password located on your Notice of Internet Availability (Notice and Access) Card, received from Issuer Direct Corporation. If it is unclear whether you are an objecting or non-objecting beneficial owner or whether you are a registered stockholder, please email info@virnetx.com.

As a reminder, if you are a registered stockholder, details regarding how you can vote (or change your vote) are contained in the previously filed proxy statement of the Company and have not changed. If you were a registered stockholder at the close of business on April 8, 2022, you may vote your shares over the internet, by telephone or by mail, or you may vote via the internet at the Annual Meeting.

If you are a registered stockholder, your Internet, telephone or mail vote must be received by 11:59 p.m., Eastern Time, on June 2, 2022 to be counted.

To vote by proxy if you were a registered stockholder:

- At the Annual Meeting. Stockholders who attend the Annual Meeting may vote at the Meeting;
- By Mail. If printed copies of the proxy materials were mailed to you, you can complete, sign and date the proxy card and return it in the prepaid envelope provided;
- By Telephone. Stockholders of record as of the Record Date who live in the United States or Canada may submit proxies by following the "Vote by Phone" instructions on their proxy cards or the Notice or by following the voting instructions provided by email or over the internet; or
- Online. Stockholders of record with internet access may submit proxies via the internet by following the "Vote by Internet" instructions described
  in the Notice.

Thank you for your continued support of VirnetX.

Sincerely,

Kendall Larsen

Chairman of the Board of Directors

Zephyr Cove, Nevada

May 18, 2022

#### UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

#### FORM 10-K/A

(Amendment No. 1)

(Mark One)

	ON 13 OR 15(d) OF THE SEC	URITIES EXCHANGE ACT OF 1934
	1. 13 01. 15(a) 01 1112 020	
For the fiscal year ended December 31, 2021		
	or	
☐ TRANSITION REPORT PURSUANT TO SEC	CTION 13 OR 15(d) OF THE	SECURITIES EXCHANGE ACT OF 1934
For the transition period from to		
Com	mission File Number: 001	1-33852
	Holding Con	
Delaware		77-0390628
(State or other jurisdiction of incorporation or orga	nization)	(I.R.S. Employer Identification No.)
308 Dorla Court, Suite 206 Zephyr Cove, Nevada		89448
(Address of principal executive offices)		(Zip Code)
•	one number, including are tered pursuant to Section	
Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, par value \$0.0001 per share	VHC	NEW YORK STOCK EXCHANGE
Securities regis	tered pursuant to section None	12(g) of the Act:
Indicate by check mark if the registrant is a well-kn $\square$ No $\boxtimes$	nown seasoned issuer, as d	efined in Rule 405 of the Securities Act. Yes
Indicate by check mark if the registrant is not rec $\square$ No $\boxtimes$	uired to file reports pursu	nant to Section 13 or Section 15(d) of the Act. Yes
	nonths (or for such shorter	ed to be filed by Section 13 or 15(d) of the Securities reperiod that the registrant was required to file such days. Yes $\boxtimes$ No $\square$
	05 of this chapter) during	every Interactive Data File required to be submitted the preceding 12 months (or for such shorter period
	ny. See the definitions of '	an accelerated filer, a non-accelerated filer, smaller 'large accelerated filer," "accelerated filer," "smaller exchange Act.
Large accelerated filer $\square$ Accelerated filer $\boxtimes$ Emerging growth company $\square$ Smaller reporting co	ompany 🗆	Non-accelerated filer $\square$
If an emerging growth company, indicate by check complying with any new or revised financial account		elected not to use the extended transition period for pursuant to Section 13(a) of the Exchange Act. $\Box$
		attestation to its management's assessment of the 4(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b))

by the registered public accounting firm that prepared or issued its audit report.  $\boxtimes$ 

The aggregate market value of the voting and non-voting common equity held by non-affiliates of the registrant as of June 30, 2021, was \$268,027,097 based upon the closing price of the common shares of the registrant on June 30, 2021. This calculation does not reflect a determination that certain persons are affiliates of the registrant for any other purpose.

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes  $\square$  No  $\boxtimes$ 

71,232,856 shares of the registrant's Common Stock were outstanding as of March 11, 2022.

#### DOCUMENTS INCORPORATED BY REFERENCE

The information required by Part III of the Annual Report on Form 10-K for the fiscal year ended December 31, 2021 with the U.S. Securities and Exchange Commission ("SEC") on March 16, 2022, to the extent not set forth herein, is incorporated by reference from the registrant's definitive proxy statement filed with the Securities and Exchange Commission on April 20, 2022 relating to the registrant's 2022 Annual Meeting of Stockholders.

#### **EXPLANATORY NOTE**

VirnetX Holding Corporation ("the Company") filed its Annual Report on Form 10-K for the fiscal year ended December 31, 2021 with the U.S. Securities and Exchange Commission ("SEC") on March 16, 2022 (the "Original Form 10-K"). This Amendment No. 1 on Form 10-K (this "Amendment" or "Form 10-K/A") is being filed to restate certain information in the Company's previously issued consolidated financial statements for the fiscal year ended December 31, 2021 (the "Affected Period"), contained in the Original Form 10-K (the "Restatement"). This Amendment also amends the Company's conclusions and disclosures included in Item 9A Controls and Procedures of the Original Form 10-K related to disclosure controls and procedures and internal control over financial reporting.

On May 9, 2022, the Company's board of directors concluded, after discussion with management, that the consolidated financial statements included in the Original Form 10-K should no longer be relied upon because of an error related to accounting for deferred taxes. The error related to the carrying balance of our deferred tax asset that included the fair value of nonqualified stock options ("NSO") expensed for book purposes but the tax impact of that expense is deferred for income tax purposes. In connection with accounting for NSOs, the Company expenses the fair value of NSOs granted over the vesting period of the NSOs. For income tax purposes, the tax impact of that expense is deferred as part of our deferred tax asset, until the NSO holder converts the NSO to stock, at which time the deferred tax asset is reduced and tax expense is recognized. If an NSO is never exercised, and then expires in accordance with the terms of the contract, any amounts included in our deferred tax asset are written off and income tax expense is recognized.

As of December 31, 2021, the Company incorrectly included approximately \$3 million in deferred tax assets related to expired NSOs, which should have reduced the income tax benefit when the NSOs expired. The Company has reduced the deferred tax asset in the consolidated balance sheet and the income tax benefit in the consolidated statement of operations by approximately \$3 million for the Affected Period; the restatement also resulted in changes to Note 2 – Summary of Significant Accounting Policies, *Restatement of Previously Issued Financal Statements*, Note 7 – Earnings per share and Note 10 – Income Taxes.

As a result of the restatement, the Company's management re-evaluated the effectiveness of the Company's disclosure controls and procedures as well as its internal control over financial reporting for the Affected Period. Management concluded that the Company's disclosure controls and procedures as well as its internal control over financial reporting were ineffective for the Affected Period due to a material weakness in the effectiveness of a control intended to ensure appropriate accounting for infrequent transactions affecting our deferred taxes. We concluded we had inadequate supervisory review of tax professionals to provide the necessary assurance that transactions affecting our deferred tax calculation, specifically that unexercised NSOs would be monitored for expiration and evaluation of the impact of expired NSOs on the accounting and reporting of deferred tax assets.

The Company's management, with the oversight of the Audit Committee, has developed a plan to remediate this material weakness. The description of the material weakness in internal controls identified by management and the Company's preliminary remediation plans and changes to internal control over financial reporting are included in Item 9A of this Amendment.

This Amendment sets forth the Original Form 10-K, as modified and superseded where necessary to reflect the Restatement and the related internal control considerations. Accordingly, the following items included in the Original Form 10-K have been amended:

- Part I, Item 1A, Risk Factors
- Part II, Item 7, Management's Discussion and Analysis of Financial Condition and Results of Operations
- Part II, Item 8, Financial Statements and Supplementary Data
- Part II, Item 9A, Controls and Procedures
- Part IV, Item 15, Exhibits and Financial Statement Schedules

Additionally, in accordance with Rule 12b-15 under the Securities Exchange Act of 1934, as amended, the Company is including with this Amendment currently dated certifications from its Chief Executive Officer and President and Chief Financial Officer. These certifications are filed or furnished, as applicable, as Exhibits 31.1, 31.2, 32.1 and 32.2.

Except as described above, this Amendment does not amend, update or change any other disclosures in the Original Form 10-K. In addition, the information contained in this Amendment does not reflect events occurring after the Original Form 10-K and does not modify or update the disclosures therein, except to reflect the effects of the Restatement. This Amendment should be read in conjunction with the Company's other filings with the SEC.

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#### SPECIAL NOTE REGARDING FORWARD LOOKING STATEMENTS

We have included or incorporated by reference in this Amendment, and from time to time we may make statements that may constitute "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"). These forwardlooking statements are based upon our current expectations, estimates, assumptions, and beliefs concerning future events and conditions and may discuss, among other things, anticipated future performance (including sales and earnings), expected growth, future business plans and costs and the impact of potential and ongoing litigation. Any statement that is not historical in nature is a forward-looking statement and may be identified by the use of words and phrases such as "anticipates," "believes," "estimates," "expects," "intends," "plans," "predicts," "projects," "will be," "will continue," "will likely result in," and similar expressions. These statements include our beliefs and statements regarding general industry and market conditions and growth rates, as well as general domestic and international economic conditions. Readers are cautioned not to place undue reliance on forward-looking statements. Forward-looking statements are necessarily subject to risks, uncertainties, and other factors, many of which are outside our control, which could cause actual results to differ materially from such statements and from our historical results and experience. These risks, uncertainties and other factors include, but are not limited to those described in Item 1A - Risk Factors of this Report and elsewhere in this Report and those described from time to time in our future reports filed with the Securities and Exchange Commission (the "SEC"). Readers are cautioned that it is not possible to predict or identify all the risks, uncertainties and other factors that may affect future results and that the risks described herein should not be considered a complete list. Any forward-looking statement speaks only as of the date on which such statement is made, and we undertake no obligation to update or revise any forward-looking statement, whether as a result of new information, future events or otherwise.

Among others, the forward-looking statements appearing in this Report that may not occur include, but are not limited to, statements regarding plans to remediate the material weakness with respect to the Company's internal control over financial reporting and the impact of these matters on the outlook of the Company and the restatement on the Company's previously issued financial statements for the Affected Period. In addition:

- In the VirnetX Inc. v. Apple, Inc. (Case Nos. 6:11-cv-00563-RWS, 6:12-cv-00855-RWS) ("Apple II") litigation, the United States Court of Appeals for the Federal Circuit (the "Federal Circuit") in November 2019, affirmed-in-part, and reversed-in-part the judgment issued by the United States District Court for the Eastern District of Texas (the "district court") in the case awarding VirnetX damages of \$595.9 million. On October 30, 2020, after a trial in the district court, a jury returned a verdict in favor of VirnetX, awarding VirnetX over \$502 million in damages. On January 15, 2021, the district court denied Apple's motion for judgment as a matter of law and affirmed the jury findings. This may imply that VirnetX may soon receive over \$500 million in cash, however, Apple has appealed to the Federal Circuit with regards to the judgement from the district court and this appeal is awaiting calendaring for oral arguments. In addition, the patents in this case are being challenged in the United States Patent and Trademark Office. If those challenges are successful, the award in the case may be reduced, eliminated and/or delayed for a lengthy period. The continuation of this litigation is distracting to our management, expensive, and these distractions and expenses may continue.
- We have undertaken activities to commercialize our products and patent portfolio in and outside the United States. These statements may imply that the worldwide market for our commercialized products is large and will result in significant future revenues for us. However, commercialization of products such as ours is subject to significant obstacles and risks, including but not limited to a perception by some potential partners and customers that they should await the outcome of the Apple II litigation before entering or considering to enter any agreement with us, and that or other factors may lead us to be unsuccessful in obtaining further licensing agreements or making arrangements or entering contracts which create significant future revenues for us.

EXCEPT AS REQUIRED BY LAW, WE UNDERTAKE NO OBLIGATION TO UPDATE OR REVISE ANY FORWARD-LOOKING STATEMENT AS A RESULT OF NEW INFORMATION, FUTURE EVENTS OR OTHERWISE.

#### PART I

#### Item 1A. Risk Factors

Our operations and financial results are subject to various risks and uncertainties, including those described below, which could adversely affect our business, financial condition, results of operations, cash flows, and the trading price of our common and capital stock. You should carefully consider the risks and uncertainties described below in addition to the other information set forth in this Report, including in "Management's Discussion and Analysis of Financial Condition and Results of Operations" and our consolidated financial statements and related notes, before making any investment in our common stock. The risks and uncertainties described below are not the only ones we face. Additional risks and uncertainties not presently known to us or that we currently believe to be immaterial may also adversely affect our business. If any of these risk factors occur, you could lose substantial value or your entire investment in our shares.

#### **Summary Risk Factors**

An investment in our common stock involves a high degree of risk, and the following is a summary of key risk factors when considering an investment. You should read this summary together with the more detailed description of each risk factor contained in the subheadings further below.

- We are involved and will continue to be involved in litigation defending our patent portfolio, which can be time-consuming and costly, and we cannot anticipate the results.
- We may not be able to capitalize on market opportunities related to our licensing strategy or our patent portfolio.
- If we are not able to adequately protect our patent rights, our business would be negatively impacted.
- Because our business is conducted or expected to be conducted in an environment that is subject to rapid change, we may be subject to various developments in regulation, law, and consumer preferences to which we may not be able to adapt successfully.
- Our exposure to outside influences beyond our control, including new legislation, court rulings or actions by the United States Patent and Trademark Office, could adversely affect our licensing and enforcement activities and results of operations.
- · New legislation, regulations or court rulings related to enforcing patents could harm our business and operating results.
- Privacy and data security concerns, and data collection and transfer restrictions and related domestic or foreign regulations may limit the use and adoption of our solutions and adversely affect our business.
- If we are unable to expand our revenue sources or establish, sustain, grow, or replace relationships with a diversified customer base, our revenues may be limited.
- We have limited technical resources and are at an early stage in commercialization of our software products.
- · Our international expansion will subject us to additional costs and risks, and our plans may not be successful.
- We have had to restate our previously issued consolidated financial statements and as part of that process have identified a material weakness in our internal control over financial reporting as of December 31, 2021. If we are unable to develop and maintain an effective system of internal control over financial reporting, we may not be able to accurately report our financial results in a timely manner, which may adversely affect investor confidence in us and materially and adversely affect our business and operating results.
- · We may face litigation and other risks as a result of the restatement and material weakness in our internal control over financial reporting.

#### Risks Related to Our Business and Our Financial Reporting

We are involved and will continue to be involved in litigation defending our patent portfolio, which can be time-consuming and costly, and we cannot anticipate the results.

We spend a significant amount of our financial and management resources to pursue our current litigation. We believe that this litigation and others that we may pursue in the future could continue for years and consume significant financial and management resources. The counterparties to our litigation include large, well-financed companies with substantially greater resources than us. Patent litigation is risky, and the outcome is uncertain, and we cannot assure you that any of our current or future litigation matters will result in a favorable outcome for us. In addition, even if we obtain favorable interim rulings or verdicts, they may be inconsistent with the ultimate resolution of the dispute. Furthermore, any awards we receive may be subject to obligations to Leidos and fee arrangements with outside counsel. Also, we cannot assure you that we will not be exposed to claims or sanctions against us which may be costly or impossible for us to defend. Unfavorable or adverse outcomes may result in losses, exhaustion of financial resources or other adverse effects, which could encumber our ability to develop and commercialize our products.

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#### We may not be able to capitalize on market opportunities related to our licensing strategy or our patent portfolio.

A large part of our business strategy includes licensing our patents and technology to other companies in order to reach a larger end-user base than we could reach through direct sales and marketing efforts; as such, our business strategy and revenues may depend on intellectual property licensing fees and royalties for the majority of our revenues. We currently derive minimal revenue from licensing activities, and royalties, and we cannot assure you that we will successfully capitalize on our market opportunities or that our current business strategy will succeed.

Although to date we have entered into a limited number of settlement and license agreements, we may not be successful in entering into further licensing relationships, or if we are successful in entering into such relationships, the acquisition of them may be expensive, and they, as well as our existing settlement and our existing and pending license agreements may not generate the financial results, we expect.

Factors that may affect our ability to execute our current business strategy include, but are not limited to, the following:

- Third parties may challenge the validity of our patents;
- The pendency of our various litigations may cause potential licensees not to do business with us;
- Our patents may expire before we can make our business strategy successful;
- We face, and we expect to continue to face, intense competition from new and established competitors who may have superior products and services or better marketing, financial or other capacities than we do; and
- It is possible that one or more of our potential customers or licensees develops or otherwise sources products or technologies similar to, competitive with or superior to ours.

#### If we are not able to adequately protect our patent rights, our business would be negatively impacted.

We believe our patents are valid, enforceable, and valuable. Notwithstanding this belief, third parties may make claims of infringement or invalidity claims with respect to our patents and such claims could give rise to material cost for defense or settlement or both, jeopardize or substantially delay a successful outcome of litigation we are or may become involved in, divert resources away from our other activities, limit or cease our revenues related to such patents, or otherwise materially and adversely affect our business. Similar challenges could also prevent us from obtaining additional patents in the future. Additionally, several of our patents are currently, and other patents may in the future be, subject to USPTO post-grant inter parters review proceedings ("IPR") which may result in all, or part of these patents being invalidated, or the claims of our patents being limited. Unfavorable or adverse outcomes in our litigation or IPRs may result in losses, exhaustion of financial resources, reduction in our ability to enforce our intellectual property rights, or other adverse effects, which could encumber our ability to develop and commercialize our products. Even if we are successful in enforcing our intellectual property rights, our patents may not ultimately provide us with any competitive advantages and may be less valuable than we currently expect. These risks may be heightened in countries other than the United States where laws regarding patent protection are less developed, and may be negatively affected by the fact that legal standards in the United States and elsewhere for protection of intellectual property rights in Internet-related businesses are uncertain and still evolving. In addition, there are a significant number of United States and foreign patents and patent applications in our areas of interest, and we expect that significant litigation in these areas will continue and will add uncertainty to the value of certain patents and other intellectual property rights in our areas of interest. If we are unable to protect our intellectual property rights or otherwise realize value from them, our business would be negatively affected.

#### We can provide no assurances that the licensing of our essential security patents under FRAND will be successful.

At the request of the European Telecommunications Standards Institute ("ETSI"), and the Alliance for Telecommunications Industry Solutions ("ATIS"), we agreed to update our licensing declaration to ETSI and ATIS under their respective Intellectual Property Rights policies. This was in response to our Statement of Patent Holder identifying a group of our patents and patent applications that we believe are or may become essential to certain developing specifications in the 3rd Generation Partnership Project Long Term Evolution ("LTE"), Systems Architecture Evolution project. We will make available a non-exclusive patent license under FRAND (fair, reasonable and non-discriminatory terms, and conditions, with compensation) for the patents identified by us that are or become essential to applicants desiring to implement the Technical Specifications identified by us, as set forth in the updated licensing declaration under the ATIS and ETSI Intellectual Property Rights policies. Our licensing declarations under the ATIS and ETSI Intellectual Property Rights policies may limit our flexibility in determining royalties and license terms for certain of our patents. Consequently, we cannot assure you that the licensing of the essential security patents will be successful or that third parties will be willing to enter into licenses with us on reasonable terms or at all, which could have an adverse effect on our business and harm our competitive position.

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Because our business is conducted or expected to be conducted in an environment that is subject to rapid change, we may be subject to various developments in regulation, law, and consumer preferences to which we may not be able to adapt successfully.

The current regulatory environment for our products and services remains unclear. We can give no assurance that our planned product offerings will be in compliance with laws and regulations of local, state, United States federal or foreign authorities. Further, we can give no assurance that we will not unintentionally violate such laws or regulations or that such laws or regulations will not be modified, or that new laws or regulations will be enacted in the future which would cause us to be in violation of such laws or regulations. For example, Voice-Over-Internet Protocol ("VoIP") services are not currently subject to all the same regulations that apply to traditional telephony, but it is possible that similar regulations may be applied to VoIP in the future and that these could result in substantial costs to us which could adversely affect the marketability of our products and planned products related to VoIP. For further example, the use of the Internet and private Internet Protocol ("IP") networks for communication is largely unregulated within the United States, but may become regulated in the future; additionally, several foreign governments have enacted measures that could restrict or prohibit voice communications services over the Internet or private IP networks.

Our business depends on the growth of instant messaging, VoIP, mobile services, streaming video, file transfer and remote desktop and other next-generation Internet-based applications. A decline in the use of these applications due to complexity or cost relative to alternate traditional or newly developed communications channels, or development of alternative technologies, could cause a material decline in the number of users in these areas.

More aggressive domestic or international regulation of the Internet in general, and Internet telephony providers and services specifically may materially and adversely affect our business, financial condition, operating results, and future prospects.

Our exposure to outside influences beyond our control, including new legislation, court rulings or actions by the United States Patent and Trademark Office, could adversely affect our licensing and enforcement activities and results of operations.

Our licensing and enforcement activities are subject to numerous risks from outside influences, including the following:

- New legislation, regulations or rules related to obtaining patents or enforcing patents could significantly increase our operating costs and decrease our revenue. For instance, the United States Supreme Court has modified some tests used by the USPTO in granting patents during the past 20 years which may decrease the likelihood that we will be able to obtain patents and increase the likelihood of challenge of any patents we obtain or license. In addition, in 2012 the United States enacted sweeping changes to the United States patent system under the Leahy-Smith America Invents Act, including changes that transition the United States from a "first-to-invent" system to a "first to file" system and alter the processes for challenging issued patents;
- · More patent applications are filed each year resulting in longer delays in getting patents issued by the USPTO;
- · Federal courts are becoming more crowded, and as a result, patent enforcement litigation is taking longer; and
- As patent enforcement becomes more prevalent, it may become more difficult for us to voluntarily license our patents.

#### New legislation, regulations or court rulings related to enforcing patents could harm our business and operating results.

Intellectual property is the subject of intense scrutiny by the courts, legislatures, and executive branches of governments around the world. Various patent offices, governments or intergovernmental bodies may implement new legislation, regulations or rulings that impact the patent enforcement process, or the rights of patent holders and such changes could negatively affect licensing efforts and/or litigations. For example, limitations on the ability to bring patent enforcement claims, limitations on potential liability for patent infringement, lower evidentiary standards for invalidating patents, increases in the cost to resolve patent disputes and other similar developments could negatively affect our ability to assert our patent or other intellectual property rights.

It is impossible to determine the extent of the impact of any new laws, regulations or initiatives that may be proposed, or whether any of the proposals will become enacted as laws. Compliance with any new or existing laws or regulations could be difficult and expensive, affect the manner in which we conduct our business and negatively impact our business, prospects, financial condition, and results of operations.

#### If we experience security breaches or incidents, we could be exposed to liability and our reputation and business could suffer.

We expect to retain certain confidential and proprietary customer information in our secure data centers and secure domain name registry, as well as personal data and other confidential and proprietary information relating to our business. It will be critical to our business strategy that our facilities and infrastructure remain secure and are perceived by the marketplace to be secure. Our secure domain name registry operations will also depend on our ability to maintain our computer and telecommunications equipment in effective working order and to reasonably protect our systems against interruption, and potentially depend on protection by other registrars in the shared registration system. The secure domain name servers that we will operate will be critical hardware to our registry services operations. Therefore, we expect to have to expend significant time and money to maintain or increase the security of our products, facilities, and infrastructure. Security technologies are constantly being tested by computer professionals, academics and "hackers." Advances in computer capabilities and the techniques for attacking security solutions, new discoveries in the field of cryptography or other events or developments could result in compromises or breaches of our security measures and could make some or all our products obsolete or unmarketable. Likewise, if any of our products are found to have significant security vulnerabilities, then we may need to dedicate engineering and other resources to eliminate the vulnerabilities and to repair or replace products already sold or licensed to our customers. Despite the security measures that we and our service providers utilize, our infrastructure and that of our service providers may be vulnerable to physical break-ins, computer viruses, attacks by hackers, phishing attacks, social engineering, or similar disruptive problems. It is possible that we may have to expend additional financial and other resources to address such problems. The COVID-19 pandemic is increasing vulnerability to cyber-attacks, as more individuals and companies work online, which increases these risks. As a provider of Internet security software and technology, we may be the target of dedicated efforts by hackers and other third parties to overcome or defeat our security measures. Any physical or electronic break-in or other security breach or incident or compromise of the information stored at our secure data centers and domain name registration systems. including any compromise due to human error or employee or contractor malfeasance, may jeopardize the security of information stored on our premises or in the computer systems and networks of our customers. In such an event, we could face significant liability and current or potential customers could be reluctant to use our services. Additionally, any such data security incident, or the perception that one has occurred could also result in adverse publicity, harm to our reputation and competitive position, and therefore adversely affect the market's perception of the security of electronic commerce and communications over IP networks as well as the security or reliability of our services.

A security breach or other security incident could require a substantial level of financial resources to rectify and otherwise respond to, may be difficult to identify or address in a timely manner, and could result in claims, investigations, and inquires by private parties or governmental entities that may divert management's attention and require the expenditure of significant time and resources, and which may cause us to incur substantial fines, penalties, or other liability and related legal and other costs. Any actual or perceived security breach or other security incident may also harm our reputation and make it more difficult or impossible for us to successfully market to others. Any of the foregoing matters could harm our operating results and financial condition.

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Privacy and data security concerns, and data collection and transfer restrictions and related domestic or foreign regulations may limit the use and adoption of our solutions and adversely affect our business.

Personal privacy, information security, and data protection are significant issues in the United States, Europe, and many other jurisdictions where we have operations or offer our products. The regulatory framework governing the collection, processing, storage and use of confidential and proprietary business information and personal data is rapidly evolving. The United States federal and various state and foreign governments have adopted or proposed requirements regarding the collection, distribution, use, security and storage of personally identifiable information and other data relating to individuals, and federal and state consumer protection laws are being applied to enforce regulations related to the online collection, use and dissemination of data.

Further, many foreign countries and governmental bodies, including the European Union ("EU"), where we conduct business, have laws and regulations concerning the collection and use of personal data obtained from their residents or by businesses operating within their jurisdiction. These laws and regulations often are more restrictive than those in the United States. Laws and regulations in these jurisdictions apply broadly to the collection, use, storage, disclosure, and security of data that identifies or may be used to identify or locate an individual, such as names, email addresses and, in some jurisdictions, IP addresses.

We also expect that there will continue to be new proposed laws, regulations and industry standards concerning privacy, data protection and information security in the United States, the EU, and other jurisdictions. For example, the European Commission adopted a General Data Protection Regulation (the "GDPR") that became fully effective on May 25, 2018, superseding prior EU data protection legislation, imposing more stringent EU data protection requirements, and providing for greater penalties for noncompliance. The United Kingdom has enacted a Data Protection Act and legislation referred to as the UK GDPR that substantially implements the GDPR. We are evaluating obligations imposed on us by the GDPR and we may be required to incur substantial expense in order to make significant changes to our product and business operations in connection with obtaining and maintaining compliance with the GDPR and similar legislation, such as the UK GDPR and UK Data Protection Act, all of which may adversely affect our revenue and product sales. Additionally, California has enacted legislation, the California Consumer Privacy Act (the "CCPA") that, among other things, requires covered companies to provide disclosures to California consumers, and afford such consumers abilities to opt-out of certain sales of personal information. Additionally, a new privacy law, the California Privacy Rights Act (the "CPRA"), was approved by California voters in the November 2020 election. The CPRA significantly modifies the CCPA, creating obligations relating to consumer data which began on January 1, 2022, with implementing regulations expected on or before July 1, 2022, and enforcement beginning July 1, 2023. Additionally, other U.S. states continue to propose, and in certain cases adopt, privacy-focused legislation. For example, in March 2021, Virginia enacted the Virginia Consumer Data Protection Act, which becomes effective on January 1, 2023, and in June 2021, Colorado enacted the Colorado Privacy Act, which takes effect July 1, 2023. We cannot yet fully determine the impact these or future laws, regulations and standards may have on our business, but they may require us to modify our data processing practices and policies and to incur substantial costs and expenses in an effort to comply. Privacy, data protection and information security laws and regulations are often subject to differing interpretations, may be inconsistent among jurisdictions, and may be alleged to be inconsistent with our current or future practices. Additionally, we may be bound by contractual requirements applicable to our collection, use, processing, and disclosure of various types of data, including personal data, and may be bound by, or voluntarily comply with, self-regulatory or other industry standards relating to these matters. These and other requirements could reduce demand for our products, increase our costs, impair our ability to grow our business, or restrict our ability to store and process data or, in some cases, impact our ability to offer our service in some locations and may subject us to liability. Any failure or perceived failure to comply with applicable laws, regulations, industry standards, and contractual obligations may adversely affect our business. Further, in view of new or modified federal, state, or foreign laws and regulations, industry standards, contractual obligations and other legal obligations, or any changes in their interpretation, we may find it necessary or desirable to fundamentally change our business activities and practices or to expend significant resources to modify our product and otherwise adapt to these changes. We may be unable to make such changes and modifications in a commercially reasonable manner or at all, and our ability to develop new products and features could be limited.

The costs of compliance with and other burdens imposed by laws, regulations and standards may limit the use and adoption of our service and reduce overall demand for it, or lead to significant fines, penalties, or liabilities for any noncompliance. Privacy, information security, and data protection concerns, whether valid or not valid, may inhibit market adoption of our platform, particularly in certain industries and foreign countries.

#### We expect that we will experience long and unpredictable sales cycles, which may impact our operating results.

The sales cycle between initial customer contact and execution of a contract or license agreement with a customer or purchaser of our products can vary widely. We expect that our sales cycles will be long and unpredictable due to several factors, including but not limited to:

- The need to educate potential customers about our patent rights and our product and service capabilities;
- The impact of the COVID-19 pandemic on our potential customers and their business operations, including their budgetary constraints and resources devoted to adopting new products.
- · Our customers' willingness to invest potentially substantial resources and modify their network infrastructures to take advantage of our products;
- · Our customers' budgetary constraints;
- · The timing of our customers' budget cycles;
- · Delays caused by customers' internal review processes; and
- Long sales cycles that may increase the risk that our financial resources are exhausted before we are able to generate significant revenue.

In addition, potential customers of our products include local, state, federal and foreign government authorities. Sales to government authorities can be extended and unpredictable. Government authorities generally have complex budgeting, purchasing, and regulatory processes that govern their capital spending, and their spending is likely to be adversely impacted by economic conditions, including impacts from the COVID-19 pandemic. In addition, in many instances, sales to government authorities may require field trials and may be delayed by the time it takes for government officials to evaluate multiple competing bids, negotiate terms, and award contracts.

For these reasons, the sales cycle associated with our products is subject to a number of significant risks that are beyond our control. Consequently, if our forecasted customer orders are not realized or delayed, our revenues and results of operations could be materially and adversely affected.

### If we are unable to expand our revenue sources or establish, sustain, grow, or replace relationships with a diversified customer base, our revenues may be limited.

We currently generate revenue from a limited number of customers that have entered settlement and license agreements. Our software products and services currently generating limited revenue, and it will take time for us to grow our installed user base and generate new customers. Additionally, there is no guarantee that we will be able to derive revenue from new customers, sustain or increase revenue from existing customers or replace customers from whom we currently generate revenue. As a result, our revenue may be limited or static.

## We have limited technical resources and are at an early stage in commercialization of our VirnetX One platform and software products.

Part of our business includes the internal development of commercial products we seek to monetize. This aspect of our business may require significant capital, time and resources and we cannot guarantee that it will be successful or meet our expectations. As such, we have a small technical team, which may limit our ability to rapidly adapt our product to customer requirements or add new product features to maintain our competitive edge and drive adoption. Based on the scale of our technical resources, our limited historical financial data upon which to base our projected revenue or planned operating expenses related to our software products and services, we may not be able to effectively:

- Generate revenues or profit from product sales;
- Drive adoption of our products;
- Attract and retain customers for our products;

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- Provide appropriate levels of customer training and support for our products;
- Implement an effective marketing strategy to promote awareness of our products:
- Focus our research and development efforts in areas that generate returns on our efforts:
- Anticipate and adapt to changes in our market; or
- Protect our products from any system failures or other breaches.

In addition, a high percentage of our expenses are and will continue to be fixed. Accordingly, if we do not generate revenue as and when anticipated, our losses may be greater than expected and our operating results will suffer.

# Our products are highly technical and may contain undetected errors, which could cause harm to our reputation and adversely affect our business.

Our products are highly technical and complex and, when deployed, may contain errors or defects. Despite testing, some errors in our products may only be discovered after a product has been installed and used by customers. Any errors or defects discovered in our products after commercial release could result in failure to achieve market acceptance, loss of revenue or delay in revenue recognition, loss of customers and increased service and warranty cost, any of which could adversely affect our business, operating results, and financial condition. In addition, we could face claims for product liability, tort, or breach of warranty, including claims relating to changes to our products made by our channel partners. The performance of our products could have unforeseen or unknown adverse effects on the networks over which they are delivered as well as on third-party applications and services that utilize our services, which could result in legal claims against us, harming our business. Furthermore, we expect to provide implementation, consulting, and other technical services in connection with the implementation and ongoing maintenance of our products, which typically involves working with sophisticated software, computing, and communications systems. We expect that our contracts with customers will contain provisions relating to warranty disclaimers and liability limitations, which may not be upheld. Defending a lawsuit, regardless of its merit, is costly and may divert management's attention and adversely affect the market's perception of us and our products. In addition, if our business liability insurance coverage proves inadequate or future coverage is unavailable on acceptable terms or at all, our business, operating results, and financial condition could be adversely impacted.

## Malfunctions of third-party communications infrastructure, hardware and software expose us to a variety of risks that we cannot control.

Our business will depend upon, among other things, the capacity, reliability, security, and unimpeded access of the infrastructure owned by third parties that we will use to deploy our offerings. We have no control over the operation, quality, or maintenance of a significant portion of that infrastructure or whether those third parties will upgrade or improve their equipment. We depend on these companies to maintain the operational integrity of our connections. If one or more of these companies is unable or unwilling to supply or expand its levels of service to us in the future, our operations could be severely interrupted. Also, to the extent that the number of users of networks utilizing our current or future products suddenly increases, the technology platform and secure hosting services which will be required to accommodate a higher volume of traffic may result in slower response times or service interruptions. System interruptions or increases in response time could result in a loss of potential or existing users and, if sustained or repeated, could reduce the appeal of the networks to users. In addition, users depend on real-time communications; outages caused by increased traffic could result in delays and system failures. These types of occurrences could cause users to perceive that our solution does not function properly and could therefore adversely affect our ability to attract and retain licensees, strategic partners, and customers.

#### System failure or interruption or our failure to meet increasing demands on our systems could harm our business.

The success of our license and service offerings will depend on the uninterrupted operation of various systems, secure data centers and other computer and communication networks that we establish. To the extent, the number of users of networks utilizing our future products suddenly increases, the technology platform and hosting services which will be required to accommodate a higher volume of traffic may result in slower response times, service interruptions or delays or system failures. Our systems and operations will also be vulnerable to damage or interruption from, among other things:

- Power loss, transmission cable cuts and other telecommunications failures;
- Damage or interruption caused by fire, earthquake, and other natural disasters;
- · Computer viruses or software defects; and
- · Physical or electronic break-ins, sabotage, intentional acts of vandalism, terrorist attacks and other events beyond our control.

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System interruptions or failures and increases or delays in response time could result in a loss of potential or existing users and, if sustained or repeated, could reduce the appeal of the networks to users. These types of occurrences could cause users to perceive that our solution does not function properly and could therefore adversely affect our ability to attract and retain licensees, strategic partners, and customers.

Any significant problem with our systems or operations could result in lost revenue, customer dissatisfaction or lawsuits against us. A failure in the operation of our secure domain name registration system could result in the inability of one or more registrars to register and maintain secure domain names for a period of time. A failure in the operation or update of the master directory that we plan to maintain could result in deletion or discontinuation of assigned secure domain names for a period of time. The inability of the registrar systems we establish, including our back-office billing and collections infrastructure, and telecommunications systems to meet the demands of an increasing number of secure domain name requests could result in substantial degradation in our customer support service and our ability to process registration requests in a timely manner.

Our ability to sell our solutions will be dependent on the quality of our technical support, and our failure to deliver high-quality technical support services could have a material adverse effect on our sales and results of operations.

If we do not effectively assist our customers in deploying our products, succeed in helping our customers quickly resolve post deployment issues and provide effective ongoing support, or if potential customers perceive that we may not be able achieve to the foregoing, our ability to sell our products would be adversely affected, and our reputation with current and potential customers could be harmed. In addition, as we expand our operations internationally, our technical support team will face additional challenges, including those associated with delivering support, training, and documentation in languages other than English. Our failure to deliver and maintain high-quality technical support services to our customers could result in customers choosing to use our competitors' products and support services instead of ours in the future.

Telephone carriers have petitioned governmental agencies to enforce regulatory tariffs, which, if granted, would increase the cost of online communication, and such increase in cost may impede the growth of online communication and adversely affect our business.

Use of the Internet has over-burdened existing telecommunications infrastructures, and many high traffic areas have begun to experience interruptions in service. As a result, certain local telephone carriers have petitioned governmental agencies to enforce regulatory tariffs on IP-telephony traffic that crosses over their traditional telephone networks. If the relief sought in these petitions is granted, the costs of communicating via online could increase substantially, potentially adversely affecting the growth in the use of online secure communications. Any of these developments could have an adverse effect on our business.

#### Our international expansion will subject us to additional costs and risks, and our plans may not be successful.

We expect to expand our presence internationally in Japan and elsewhere through third party arrangements such as international partnerships, joint ventures and potentially establishing international subsidiaries and offices. Our international expansion may present challenges and risks, including those inherent in international operations, to us and may require significant attention from management. For example, the COVID-19 pandemic has and could continue to disrupt and slow our international expansion and partnership efforts, as our international partners' businesses could continue to be disrupted. We may not be successful in our international partnerships, expansion efforts, and we may incur significant operating expenses in our efforts to expand internationally.

#### The global COVID-19 pandemic may harm our business, financial condition, and results of operations.

In December 2019, a novel coronavirus, COVID-19 was reported in China and in March 2020, the World Health Organization declared it a pandemic. This contagious disease outbreak and related variants have continued to spread across the globe and impact worldwide economic activity and financial markets. In light of the uncertain and rapidly evolving situation relating to the spread of COVID-19, we continue to take precautionary measures intended to minimize the risk of the virus to our employees, our customers, and other third parties with whom we interact. We continue to require all employees to work remotely and have also suspended all non-essential travel worldwide for our employees. While we have a distributed workforce and our employees are accustomed to working remotely or working with other remote employees, our workforce is not fully remote. Our employees and consultants travel frequently to establish and maintain relationships with one another, our customers and prospective customers, partners, and investors. Although we continue to monitor the situation and may adjust our current policies as more information and public health guidance becomes available, temporarily suspending travel and restricting the ability to do business in person could negatively affect our customer success efforts, sales and marketing efforts, challenge our ability to enter into customer contracts in a timely manner, slow down our recruiting efforts, or create operational or other challenges, any of which could harm our business, financial condition and results of operations. Furthermore, if a natural disaster, power outage, connectivity issue, or other event occurred that impacted our employees' ability to work remotely, it may be difficult or, in certain cases, not possible, for us to continue our business for a substantial period of time. The increase in remote working may also result in consumer privacy, IT security and fraud concerns as well as increase our exposure to potential wage and hour issues. In addition, the COVID-19 pandemic may disrupt the operations of our customers, partners, suppliers, and other thirdparty providers for an indefinite period of time, including as a result of travel restrictions, adverse effects on budget planning processes, and/or business shutdowns, all of which could negatively impact our business, financial condition, and results of operations. More generally, despite continued actions taken by governments and businesses to attempt to contain and treat the disease, and related variants, including the distribution and administration of effective vaccines, the COVID-19 pandemic could continue to adversely affect economies and financial markets globally, potentially leading to an economic downturn, which could decrease technology spending and adversely affect our business.

## We do not regularly pay dividends on our common stock and thus stockholders must look to appreciation of our common stock to realize a gain on their investments.

Our dividend policy is within the discretion of our Board of Directors and will depend upon various factors, including our business, financial condition, results of operations, capital requirements, and investment opportunities. We therefore cannot make assurances that our Board of Directors will determine to pay regular or special dividends in the future. Accordingly, unless our Board of Directors determines to pay dividends, stockholders will be required to look to appreciation of our common stock to realize a gain on their investment, which may not occur.

The exercise of our outstanding stock options, warrants, and RSUs and issuance of new shares would result in a dilution of our current stockholders' voting power and an increase in the number of shares eligible for future resale in the public market which may negatively impact the market price of our stock.

The exercise of our outstanding vested stock options, warrants, and RSUs would dilute the ownership interests of our existing stockholders. As of December 31, 2021, we had outstanding options, warrants and RSUs to purchase an aggregate of 6,931,592 shares of common stock representing approximately 9.7% of our total shares outstanding of which 4,938,709 were vested and therefore exercisable. To the extent outstanding stock options are exercised, additional shares of common stock will be issued, existing stockholders' percentage voting interests will decline and the number of shares eligible for resale in the public market will increase. Such increase may have a negative effect on the value or market trading price of our common stock.

#### Because ownership of our common stock is concentrated, investors may have limited influence on stockholder decisions.

As of December 31, 2021, our executive officers and directors beneficially owned approximately 14% of our outstanding common stock. In addition, a group of stockholders that, as of December 31, 2007, held 4,766,666 shares, or approximately 7% of our outstanding common stock, have entered into a voting agreement with us that requires them to vote all of their shares of our voting stock in favor of the director nominees approved by our Board of Directors at each director election going forward, and in a manner that is proportional to the votes cast by all other voting shares as to any other matters submitted to the stockholders for a vote. However, we cannot be certain how many shares of our common stock this group of stockholders currently owns. Because of their beneficial ownership interest, our officers and directors could significantly influence stockholder actions of which you disapprove or that are contrary to your interests. This ability to exercise significant influence could prevent or significantly delay another company from acquiring or merging with us.

Our protective provisions in our amended and restated certificate of incorporation and bylaws could make it difficult for a third party to successfully acquire us even if you would like to sell your stock to them.

We have a number of protective provisions in our amended and restated certificate of incorporation and bylaws that could delay, discourage, or prevent a third party from acquiring control of us without the approval of our Board of Directors. These protective provisions include:

- A staggered Board of Directors: This means that only one or two directors (since we have a five-person Board of Directors) will be up for election at any given annual meeting. This has the effect of delaying the ability of stockholders to affect a change in control of us because it would take two annual meetings to effectively replace a majority of the Board of Directors.
- **Blank check preferred stock**: Our Board of Directors has the authority to establish the rights, preferences, and privileges of our 10,000,000 authorized, but unissued, shares of preferred stock. Therefore, this stock may be issued at the discretion of our Board of Directors with preferences over your shares of our common stock in a manner that is materially dilutive to you. In addition, blank check preferred stock can be used to create a "poison pill" which is designed to deter a hostile bidder from buying a controlling interest in our stock without the approval of our Board of Directors. We have not adopted such a "poison pill;" but our Board of Directors has the ability to do so in the future, very rapidly and without stockholder approval.
- Advance notice requirements for director nominations and for new business to be brought up at stockholder meetings: Stockholders wishing to submit director nominations or raise matters to a vote of the stockholders must provide notice to us within very specific date windows and in very specific form in order to have the matter voted on at a stockholder meeting. This has the effect of giving our Board of Directors and management more time to react to stockholder proposals generally and could also have the effect of disregarding a stockholder proposal or deferring it to a subsequent meeting to the extent such proposal is not raised properly.
- **No stockholder actions by written consent:** No stockholder or group of stockholders may take actions rapidly and without prior notice to our Board of Directors and management or to the minority stockholders. Along with the advance notice requirements described above, this provision also gives our Board of Directors and management more time to react to proposed stockholder actions.
- Super majority requirement for stockholder amendments to the bylaws: Stockholder proposals to alter or amend our bylaws or to adopt new bylaws can only be approved by the affirmative vote of at least 66 2/3% of the outstanding shares of our common stock.
- **No ability of stockholders to call a special meeting of the stockholders:** Only the Board of Directors or management can call special meetings of the stockholders. This could mean that stockholders, even those who represent a significant percentage of our shares of common stock, may need to wait for the annual meeting before nominating directors or raising other business proposals to be voted on by the stockholders.

In addition, the provisions of Section 203 of the Delaware General Corporation Law govern us. These provisions may prohibit large stockholders, particularly those owning 15% or more of our outstanding voting stock, from merging or combining with us for a certain period of time.

These and other provisions in our amended and restated certificate of incorporation, our bylaws and under Delaware law could discourage potential takeover attempts, reduce the price that investors might be willing to pay for shares of our common stock in the future and result in the market price being lower than it would be without these provisions.

Our amended and restated bylaws designate a state or federal court located within the State of Delaware as the exclusive forum for substantially all disputes between us and our stockholders, which could limit our stockholders' ability to choose the judicial forum for disputes with us or our directors, officers, or employees.

Our amended and restated bylaws provide that, unless we consent in writing to the selection of an alternative forum, the sole and exclusive forum for (1) any derivative action or proceeding brought on our behalf, (2) any action asserting a claim of breach of a fiduciary duty owed by any of our directors, stockholders, officers, or other employees to us or our stockholders, (3) any action arising pursuant to any provision of the Delaware General Corporation Law, or our amended and restated certificate of incorporation or amended and restated bylaws or (4) any other action asserting a claim that is governed by the internal affairs doctrine shall be the Court of Chancery of the State of Delaware (or, if the Court of Chancery does not have jurisdiction, another State court in Delaware or the federal district court for the District of Delaware), in all cases subject to the court having jurisdiction over indispensable parties named as defendants.

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However, notwithstanding the exclusive forum provisions, our amended and restated bylaws explicitly state that they would not preclude the filing of claims brought to enforce any liability or duty created under federal securities laws, including the Securities Act or the Exchange Act.

Any person or entity purchasing or otherwise acquiring any interest in any of our securities shall be deemed to have notice of and consented to this provision. This exclusive-forum provision may limit a stockholder's ability to bring a claim in a judicial forum of its choosing for disputes with us or our directors, officers, or other employees, which may discourage lawsuits against us and our directors, officers, and other employees. If a court were to find this exclusive-forum provision in our amended and restated bylaws to be inapplicable or unenforceable in an action, we may incur additional costs associated with resolving the dispute in other jurisdictions, which could harm our results of operations.

#### **General Risk Factors**

We may need to raise additional capital to support our business growth, and this capital may be dilutive, may cause our stock price to drop or may not be available on acceptable terms, if at all.

We may need to raise additional capital, which may not be available to us when needed or may not be available on terms acceptable to us, to support our business growth or to respond to business opportunities, challenges, or unforeseen circumstances, including sales under our past and any future shelf registration statements. Our ability to obtain additional capital, if and when required, will depend on our business plans, investor demand, our operating performance, the condition of the capital markets, the terms of our current contractual obligations and other factors.

If we raise additional funds through the issuance of equity, equity-linked or debt securities, including those under our past and any future shelf registration statements, those securities may have rights, preferences, or privileges senior to the rights of our common stock, and our existing stockholders may experience dilution. Additionally, we are unable to predict the future success of any future offerings. Sales of a substantial number of shares of our common stock in the public market, or the perception that these sales or other financings might occur, could depress the market price of our common stock, and could also impair our ability to raise capital through the sale of additional equity securities. If we issue debt securities or incur indebtedness, we could experience increased future payment obligations and a need to comply with restrictive covenants, such as limitations on our ability to incur additional debt, limitations on our ability to acquire, sell or license intellectual property rights and other operating restrictions that could adversely impact our ability to conduct our business. If we are unable to obtain additional capital or are unable to obtain additional capital on satisfactory terms, our ability to continue to support our business growth or to respond to business opportunities, challenges, or other circumstances could be adversely affected, and our business may be harmed.

The departure of Kendall Larsen, our Chief Executive Officer and President, and/or other key personnel could compromise our ability to execute our strategic plan and materially harm our business.

Our success largely depends on the skills, experience, and performance of our key personnel. Due to the specialized nature of our business and limited staff, we are particularly dependent on Kendall Larsen, our Chief Executive Officer and President. We have no employment agreements with any of our key executives that prevent them from leaving us at any time. In addition, we do not maintain key person life insurance for any of our officers or key employees. The loss of Mr. Larsen, or our failure to retain other key personnel or adequately plan for the succession of key personnel, would jeopardize our ability to execute our strategic plan and materially harm our business.

#### We will need to recruit and retain additional qualified personnel to successfully grow our business.

Our future success will depend, in part, on our ability to attract and retain qualified engineering, operations, marketing, sales and executive personnel. Inability to attract and retain such personnel could adversely affect our business. Competition for engineering, operations, marketing, sales, and executive personnel is intense, particularly in the technology and Internet sectors and in the regions where we conduct our business. We may need to invest significant amounts of cash and equity to attract and retain employees and expend significant time and resources to identify, recruit, train and integrate such employees, and we may never realize returns on these investments. Additionally, we can provide no assurance that we will attract or retain such personnel.

We have incurred and will continue to incur significant costs as a result of operating as a public company, and our management will be required to continue to devote substantial time to various compliance initiatives.

The Sarbanes-Oxley Act of 2002, the Dodd-Frank Wall Street Reform and Consumer Protection Act of 2010, as well as other rules implemented by the SEC and the New York Stock Exchange ("NYSE"), impose various requirements on public companies, including requiring changes in corporate governance practices. These and proposed corporate governance laws and regulations under consideration may further increase our compliance costs. If compliance with these various legal and regulatory requirements diverts our management's attention from other business concerns, it could have a material adverse effect on our business, financial condition, and operating results. The Sarbanes-Oxley Act requires, among other things, that we assess the effectiveness of our internal control over financial reporting annually and disclosure controls and procedures quarterly. If we are unable to assert in any future reporting periods that our internal control over financial reporting is effective (or if our independent registered public accounting firm is unable to express an opinion on the effectiveness of our internal controls), such as our restatement of our previously issued consolidated financial statements and related material weakness as described in this Report, we may incur additional costs rectifying those or new issues, and we could lose investor confidence in the accuracy and completeness of our financial reports, which would have an adverse effect on our share price.

We may in the future identify deficiencies regarding the design and effectiveness of our system of internal control over financial reporting. If we experience any material weaknesses in our internal control over financial reporting in the future or are unable to provide unqualified management or attestation reports about our internal controls, we may be unable to meet financial and other reporting deadlines and may incur costs associated with remediation, and any of which could cause our share price to decline. Moreover, if we identify deficiencies in our internal control over financial reporting that are deemed to be material weaknesses in future periods, the market price of our common stock could decline, and we could be subject to potential delisting by the NYSE and review by the NYSE, the SEC, or other regulatory authorities, which would require the expenditure by us of additional financial and management resources. As a result, our shareholders could lose confidence in our financial reporting, which would harm our business and the market price of our common stock.

We have had to restate our previously issued consolidated financial statements and as part of that process have identified a material weakness in our internal control over financial reporting as of December 31, 2021. If we are unable to develop and maintain an effective system of internal control over financial reporting, we may not be able to accurately report our financial results in a timely manner, which may adversely affect investor confidence in us and materially and adversely affect our business and operating results.

On May 9, 2022, our Audit Committee concluded, after discussion with the Company's management and Farber Hass Hurley LLP, that the previously issued financial statements during the Affected Period (1) should no longer be relied upon due to an overstatement of the Company's deferred tax asset, as described in this Report, and (2) require restatement. As part of the restatement process, we have identified a material weakness in our internal control over financial reporting.

A material weakness is a deficiency, or a combination of deficiencies, in internal control over financial reporting such that there is a reasonable possibility that a material misstatement of our annual or interim financial statements will not be prevented, or detected and corrected on a timely basis. Effective internal controls are necessary for us to provide reliable financial reports and prevent fraud. We continue to evaluate steps to remediate the material weakness. These remediation measures may be time consuming and costly and there is no assurance that these initiatives will ultimately have the intended effects.

Any failure to maintain effective internal controls could adversely impact our ability to report our financial position and results from operations on a timely and accurate basis. If our financial statements are not accurate, investors may not have a complete understanding of our operations. Likewise, if our financial statements are not filed on a timely basis, we could be subject to sanctions or investigations by the stock exchange on which our ordinary shares and other securities are listed, the SEC or other regulatory authorities. In either case, there could result a material adverse effect on our business. Ineffective internal controls could also cause investors to lose confidence in our reported financial information which could have a negative effect on the trading price of our stock.

We can give no assurance that the measures we have taken and plan to take in the future will remediate the material weakness identified or that any additional material weaknesses or restatements of financial results will not arise in the future due to a failure to implement and maintain adequate internal control over financial reporting or circumvention of these controls. In addition, even if we are successful in strengthening our controls and procedures, in the future those controls and procedures may not be adequate to prevent or identify irregularities or errors or to facilitate the fair presentation of our consolidated financial statements.

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We may face litigation and other risks as a result of the restatement and material weakness in our internal control over financial reporting.

As part of the Restatement, we identified material weaknesses in our internal controls over financial reporting. As a result of such material weakness and the restatement, we face potential for litigation or other disputes which may include, among others, claims invoking the federal and state securities laws, contractual claims or other claims arising from the Restatement and the material weakness in our internal control over financial reporting and the preparation of our financial statements. As of the date of this Report, we have no knowledge of any such litigation or dispute. However, we can provide no assurance that such litigation or dispute will not arise in the future. Any such litigation or dispute, whether successful or not, could have a material adverse effect on our business, results of operations and financial condition.

There are inherent uncertainties involved in estimates, judgments and assumptions used in the preparation of financial statements in accordance with U.S. GAAP. Any changes in estimates, judgments and assumptions could have a material adverse effect on our business, financial condition, and operating results.

The preparation of financial statements in accordance with accounting principles generally accepted in the United States ("U.S. GAAP") involves making estimates, judgments and assumptions that affect reported amounts of assets (including intangible assets), liabilities and related reserves, revenues, expenses, and income. Estimates, judgments, and assumptions are inherently subject to change in the future, and any such changes could result in corresponding changes to the amounts of assets, liabilities, revenues, expenses, and income. Any such changes could have a material adverse effect on our business, financial condition, and operating results.

Our results of operations and financial condition could be materially affected by the enactment of legislation implementing changes in the U.S. or foreign taxation of international business activities or the adoption of other tax reform policies.

As we expand the scale of our international business activities, any changes in the U.S. or foreign taxation of such activities may increase our worldwide effective tax rate and harm our business, results of operations, and financial condition. For example, the current administration has proposed to increase the U.S. corporate income tax rate, increase U.S. taxation of international business operations, and impose a global minimum tax which has agreement from, many countries, and the Organization for Economic Cooperation and Development. Other countries have recently proposed or recommended changes to existing tax laws or have enacted new laws that could impact our tax obligations in countries where we do business or cause us to change the way we operate our business. The impact of future changes to U.S. and foreign tax law on our business is uncertain and could be adverse, and we will continue to monitor and assess the impact of any such changes.

War, terrorism, other acts of violence, or natural or manmade disasters may affect the markets in which we operate, our clients and our service delivery.

Our business may be adversely affected by instability, disruption, or destruction in a geographic region in which we operate, regardless of cause, including war, terrorism, riot, civil insurrection, or social unrest, and natural or manmade disasters, including famine, flood, fire, earthquake, storm, or pandemic events and spread of disease, such as the COVID-19 pandemic. Such events may cause our customers to delay their decisions on spending for the services we provide and give rise to sudden significant changes in regional and global economic conditions and cycles. These events may also pose risks to our personnel and to physical facilities and operations, which could adversely affect our financial results.

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#### Trading in our common stock is limited and the price of our common shares may be subject to substantial volatility.

Our common stock is currently listed on the NYSE and was previously listed on the NYSE American LLC (formerly the NYSE MKT LLC). Over the past years, the market price of our common stock has experienced significant fluctuations. Between January 1, 2021, and December 31, 2021, the reported last adjusted closing price on the NYSE American LLC, and now NYSE, for our common stock ranged between \$2.60 and \$8.17 per share. The price of our common stock may continue to be volatile as a result of several factors, some of which are beyond our control. These factors include, but not limited to, the following:

- Developments or lack thereof in any then-outstanding litigation;
- · Quarterly variations in our operating results;
- Large purchases or sales of common stock or derivative transactions related to our stock;
- Actual or anticipated announcements of new products or services by us or competitors;
- General conditions in the markets in which we compete; and
- General social, political, economic, and financial conditions, including the significant volatility in the global financial markets, and impacts from the COVID-19 pandemic.

In addition, we believe there has been and may continue to be substantial trading in derivatives of our stock, including short selling activity or related similar activities, which are beyond our control, and which may be beyond the full control of the SEC and Financial Institutions Regulatory Authority or "FINRA." While the SEC and FINRA rules prohibit some forms of short selling and other activities that may result in stock price manipulation, such activity may nonetheless occur without detection or enforcement. We have held conversations with regulators concerning trading activity in our stock; however, there can be no assurance that should there be any illegal manipulation in the trading of our stock, it will be detected, prosecuted, or successfully eradicated. Significant short selling market manipulation could cause our stock trading price to decline, to become more volatile, or both.

### The market price of our common stock has been and may continue to be volatile, and you could lose all or part of your investment.

The trading price of our common stock has been volatile since our initial public offering and is likely to continue to be volatile. Factors that could cause fluctuations in the market price of our common stock include, but are not limited to the following:

- Price and volume fluctuations in the overall stock market from time to time, including fluctuations due to general economic uncertainty or negative market sentiment:
- · Volatility in the market prices and trading volumes of companies in our industry or companies that investors consider comparable;
- Changes in operating performance and stock market valuations of other companies generally, or those in our industry;
- Sales of shares of our common stock by us or our stockholders;
- Failure of securities analysts to maintain coverage of us, changes in financial estimates by securities analysts who follow us, or our failure to meet these estimates or the expectations of investors;
- The financial projections we may provide to the public, any changes in those projections or our failure to meet those projections;
- Announcements by us or our competitors of new products or services;

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- The public's reaction to our press releases, other public announcements, and filings with the SEC;
- Rumors and market speculation involving us or other companies in our industry;
- Actual or anticipated changes in our results of operations;
- Actual or anticipated developments in our business, our competitors' businesses, or the competitive landscape generally;
- · Litigation involving us, our industry or both, or investigations by regulators into our operations or those of our competitors;
- Announced or completed acquisitions of businesses or technologies by us or our competitors;
- · New laws or regulations or new interpretations of existing laws or regulations applicable to our business;
- Changes in accounting standards, policies, guidelines, interpretations, or principles;
- · Any significant change in our management; and
- · General economic conditions and slow or negative growth of our markets, including any economic downturn from the COVID-19 pandemic.

Further, in recent years the stock markets have experienced extreme price and volume fluctuations that have affected and continue to affect the market prices of equity securities of many companies. These fluctuations often have been unrelated or disproportionate to the operating performance of those companies. In addition, the stock prices of many technology companies have experienced wide fluctuations that have often been unrelated to the operating performance of those companies. These broad market and industry fluctuations, as well as general economic, political and market conditions such as recessions, government shutdowns, global pandemics (such as the COVID-19 pandemic), interest rate changes the stability of the EU (including, but not limited to, effects from the exit of the United Kingdom or international currency fluctuations, may cause the market price of our common stock to decline. In the past, following periods of volatility in the overall market and the market price of a particular company's securities, securities class action litigation has often been instituted against these companies.

We have broad discretion in how we apply our funds, and we may not use these funds effectively, which could affect our results of operations and cause our stock price to decline.

Our management has broad discretion in the application of our existing cash, cash equivalents and investments and could spend these funds in ways that do not improve our results of operations or enhance the value of our common stock. Pending their use, we may invest our available funds in a manner that does not produce income or that loses value. The failure by our management to apply our available funds effectively could result in financial losses that could cause the price of our common stock to decline and delay the development of our products.

In addition, an entity that, among other things, is or holds itself out as being engaged primarily, or proposes to engage primarily, in the business of investing, reinvesting, owning, trading, or holding certain types of securities would be deemed an Investment Company under the Investment Company Act of 1940 (the "1940 Act"). If we do not manage our investments and business in a manner that meets the requirements for an exemption under the 1940 Act, we may be deemed to be an investment company under the 1940 Act and subject to additional limitations on operating our business including limitations on the issuance of securities, which may make it difficult for us to raise capital.

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The market price of our common stock may decline because our operating results may not be consistent and may be difficult to predict.

Our reported net income has fluctuated in the past due to several factors. We expect that our future operating results may also fluctuate due to the same or similar factors. We had net losses of \$42.9 million for the year ended December 31, 2021. We had net income of \$280.4 million for the year ended December 31, 2020, we had net losses of \$19.2 million for the year ended December 31, 2019. As of December 31, 2021, we had accumulated deficits of \$50.9 million. The following include some of the factors that may cause our operating results to fluctuate:

- The outcome of actions to enforce our intellectual property rights currently in progress or that we may undertake in the future, and the timing thereof;
- The impact of the COVID-19 pandemic on our sales cycle and results;
- The amount and timing of receipt of license fees from potential infringers, licensees, or customers;
- The rate of adoption of our patented technologies;
- The number of new license arrangements we may execute, or that may expire, within a particular period and the scope of those licenses, including the number of our patents which are licensed, the extent of prior infringement of our patent rights, royalty rates, timing of payment obligations, expiration date etc.;
- The success of a licensee in selling products that use our patented technologies; and
- The amount and timing of expenses related to our patent filings and enforcement proceedings, including litigation, related to our intellectual property rights.

These fluctuations may make our business particularly difficult to manage, adversely affect our business and operating results, make our operating results difficult for investors to predict and, further, cause our results to fall below investor's expectations and adversely affect the market price of our common stock.

#### Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations

#### The Company

We are an Internet security software and technology company with patented technology for various types of secure network communications, including 5G and 4G LTE network security. Our patented Secure Domain Names and GABRIEL Connection Technology<sup>TM</sup>, are the foundation for our new VirnetX One platform that protects communications using Zero Trust Network Access ("ZTNA"). Our technology generates secure connections on a "zero-click" or "single-click" basis, significantly simplifying the deployment of secure real-time communication solutions by eliminating the need for end-users to enter any encryption information. Our portfolio of intellectual property is the foundation of our business model. We currently own approximately 205 total patents and pending applications, including 72 U.S. patents/patent applications and 133 foreign patents/validations/pending applications. Our patent portfolio is primarily focused on securing real-time communications over the Internet, and related services, and is used in all our technology and products, some of which were acquired by our principal operating subsidiary; VirnetX, Inc., from Leidos, Inc., or Leidos, (f/k/a Science Applications International Corporation, or SAIC) in 2006.

Our product portfolio includes sophisticated technologies, products and services that are available for sale worldwide. On March 1, 2022, we launched War Room<sup>TM</sup> software, the first product on our next-generation, VirnetX One platform. This new platform builds upon our patented Secure Domain Names and GABRIEL Connection Technology<sup>TM</sup> to further enhance the security and efficiency of our patented secure communication links. Our VirnetX One platform is a security-as-a-service platform that protects enterprise applications, services, and infrastructure from cyber-attacks.

Our new War Room<sup>TM</sup> software product provides an industry leading, safe, and secure video conferencing meeting environment where sensitive communications and data is invisible to those not authorized to view it. War Room<sup>TM</sup> validates permissions of all the users, and devices requesting access to any secure meeting room prior to granting access. We believe our War Room<sup>TM</sup> will be an attractive solution for government agencies as well as all professional sectors such as legal, financial, and medical where limiting access to confidential data is a critical requirement.

Our GABRIEL Collaboration Suite<sup>TM</sup> is a set of communication applications and tools that use our GABRIEL Secure Communication Platform<sup>TM</sup>. It enables seamless and secure cross platform communications between devices that are enrolled in our "VIRNETX SECURED" network and have our software installed. Our GABRIEL Collaboration Suite<sup>TM</sup> is available for download and free trial, for Android, iOS, Windows, Linux, and Mac OS X platforms, at https://virnetx.com.

We have an ongoing licensing program under which we offer licenses to a portion of our patent portfolio, technology, and software, including our secure domain name registry service, to domain infrastructure providers, communication service providers as well as to system integrators. Our GABRIEL Connection Technology<sup>TM</sup> License is offered to original equipment manufacturer ("OEM") customers who want to adopt the GABRIEL Connection Technology<sup>TM</sup> as their solution for establishing secure connections using secure domain names within their products. We have developed GABRIEL Connection Technology<sup>TM</sup> Software Development Kit ("SDK") to assist with rapid integration of these techniques into existing software implementations. Customers who want to develop their own implementation of the VirnetX patented techniques for supporting secure domain names, or other techniques that are covered by our patent portfolio for establishing secure communication links, can purchase a patent license. The number of patents licensed, and therefore the cost of the patent license to the customer, will depend upon which of the patents are used in a particular product or service. These licenses will typically include an initial license fee, as well as an ongoing royalty.

We expect to continue to launch new and enhanced security platforms, software products, and services based on our GABRIEL Connection Technology $^{TM}$ . We will provide updates to new and existing customers as they are released to the public. Many small and medium businesses have installed our software products in their corporate networks. We intend to continue to expand our customer base with targeted promotions and direct sales initiatives.

Our employees include the core development team behind our patent portfolio, technology, and software. Some members of this team have worked together for over twenty years and were on same team that invented and developed this technology while working at Leidos. The team has continued its research and development work and expanded the set of patents we acquired in 2006 from Leidos, into a larger patent portfolio. This portfolio now serves as the foundation of our products, services, and our licensing business. It is expected to generate most of our future revenue in license fees and royalties. We intend to continue our efforts to develop new products and technologies and further strengthen and expand our patent portfolio. We intend to continue using an outsourced and leveraged model to maintain efficiency and manage costs as we grow our licensing business by, for example, offering incentives to early licensing targets or asserting our rights for use of our patents.

#### Litigation

We are subject to various legal proceedings, the outcomes of which are inherently uncertain. We record any potential gains related to legal proceedings only after cash is collected. We record a liability when it is probable that a loss has been incurred and the amount is reasonably estimable, the determination of which requires significant judgment. Resolution of legal matters in a manner inconsistent with management's expectations could have a material impact on our financial condition and operating results. See Note 12 in the notes to our consolidated financial statements for more information.

#### **Commitments and Related Party Transactions**

We lease our offices under an operating lease with a third party expiring in October 2023. We recognize rent expense on a straight-line basis over the term of the lease.

We entered into a service agreement for the use of an aircraft from K2 Investment Fund LLC ("LLC") for business travel for our employees. We incurred approximately \$791, \$324, and \$1,790 in rental fees and reimbursements to the LLC in 2021, 2020 and 2019, respectively. We pay for the Company's business usage of the aircraft and have no right to purchase. Our Chief Executive Officer and Chief Administrative Officer are the managing partners of the LLC and control the equity interests of the LLC. We entered into a 12-month non-exclusive agreement with the LLC for use of the plane at a rate of \$8 per flight hour, with no minimum usage requirement. The agreement contains other terms and conditions normal in such transactions and can be cancelled by either us or the LLC with 30 days' notice. The agreement renews on an annual basis unless terminated by either party. Neither party has exercised their termination rights.

#### **Critical Accounting Policies and Estimates**

The preparation of financial statements in conformity with U.S. GAAP requires us to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reported period. The critical accounting policies we employ in the preparation of our consolidated financial statements are those which involve income taxes, fair value of financial instruments and stock-based compensation.

#### **Use of Estimates**

We prepare our consolidated financial statements in accordance with U.S. GAAP. In doing so, we have to make estimates and assumptions that affect our reported amounts of assets, liabilities, revenues, and expenses, as well as related disclosure of contingent assets and liabilities. In some cases, we could reasonably have used different accounting policies and estimates. In some cases, changes in the accounting estimates are reasonably likely to occur from period to period. Accordingly, actual results could differ materially from our estimates. To the extent that there are material differences between these estimates and actual results, our financial condition or results of operations will be affected. We base our estimates on past experience and other assumptions that we believe are reasonable under the circumstances, and we evaluate these estimates on an ongoing basis. We refer to accounting estimates of this type as critical accounting policies and estimates, which we discuss further below. We have reviewed our critical accounting policies and estimates with the Audit Committee of our Board of Directors.

#### **Income Taxes**

We account for income taxes using the asset and liability method. The asset and liability method require the recognition of deferred tax assets and liabilities for expected future tax consequences of temporary differences that currently exist between the tax basis and financial reporting basis of our assets and liabilities. We calculate current and deferred tax provisions based on estimates and assumptions that could differ from actual results reflected on the income tax returns filed during the following years. Adjustments based on filed returns are recorded when identified in the subsequent years. The effect on deferred taxes for a change in tax rates is recognized in income in the period that the tax rate change is enacted. In assessing our deferred tax assets, we consider whether it is more likely than not that all or some portion of the deferred tax assets will not be realized.

A valuation allowance is provided for deferred income tax assets when, in our judgment, based upon currently available information and other factors, it is more likely than not that all or a portion of such deferred income tax assets will not be realized. The determination of the need for a valuation allowance is based on an on-going evaluation of current information including, among other things, historical operating results, estimates of future earnings in different taxing jurisdictions and the expected timing of the reversals of temporary differences. We believe the determination to record a valuation allowance to reduce a deferred income tax asset is a significant accounting estimate because it is based, among other things, on an estimate of future taxable income in the United States and certain other jurisdictions, which is susceptible to change and may or may not occur, and because the impact of adjusting a valuation allowance may be material. In determining when to release the valuation allowance established against our net deferred income tax assets, we consider all available evidence, both positive and negative. We continually assess our ability to generate sufficient taxable income during future periods in which our deferred tax assets may be realized. If and when we believe it is more likely than not that we will recover our deferred tax assets, we will reverse the valuation allowance if any, as an income tax benefit in our statements of operations.

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We account for our uncertain tax positions in accordance with U.S. GAAP. The U.S. GAAP method of accounting for uncertain tax positions utilizes a two-step approach to evaluate tax positions. Step one, recognition, requires evaluation of the tax position to determine if based solely on technical merits it is more likely than not to be sustained upon examination. Step two, measurement, is addressed only if a position is more likely than not to be sustained. In step two, the tax benefit is measured as the largest amount of benefit, determined on a cumulative probability basis, which is more likely than not to be realized upon ultimate settlement with tax authorities. If a position does not meet the more likely than not threshold for recognition in step one, no benefit is recorded until the first subsequent period in which the more likely than not standard is met, the issue is resolved with the taxing authority, or the statute of limitations expires. Positions previously recognized are derecognized when we subsequently determine the position no longer is more likely than not to be sustained. Evaluation of tax positions, their technical merits, and measurements using cumulative probability are highly subjective management estimates. Actual results could differ materially from these estimates.

#### Fair Value

Fair value is the price that would result from an orderly transaction between market participants at the measurement date. A fair value hierarchy prioritizes the inputs used to measure fair value. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurement) and the lowest priority to unobservable inputs (Level 3 measurement). Level 2 measurements utilize either directly or indirectly observable inputs in markets other than quoted prices in active markets.

Our financial instruments are stated at amounts that equal, or approximate, fair value. When we estimate fair value, we utilize market data or assumptions that we believe market participants would use in pricing the financial instrument, including assumptions about risk and inputs to the valuation technique. We use valuation techniques, primarily the income and market approach, which maximizes the use of observable inputs and minimize the use of unobservable inputs for recurring fair value measurements.

#### **Stock-based Compensation**

We account for stock-based compensation using the fair value recognition method in accordance with U.S. GAAP. We recognize these compensation costs on a straight-line basis over the requisite service period of the award, which is generally a vesting term of 4 years. We recognize forfeitures, if any, when they occur. In addition, we record stock-based compensation expense for awards granted to non-employees at fair value of the consideration received or the fair value of the equity instruments issued, as they vest, over the performance period. See Note 6 in the notes to our consolidated financial statements for more information.

**Results of Operations** (all amounts in this section are expressed in thousands)

#### Revenue

	20	2021 2020		2020	2019	
Revenue	\$	35	\$	302,636	\$	85

Revenue generated in 2021 was \$35, compared to \$302,636 in 2020 and \$85 in 2019. In 2020, we collected a lump sum payment of \$454,034 from Apple, Inc., as a result of a favorable court decision relating to a patent infringement case. The one-time payment included past royalties, damages for willful infringement, interest, court costs and attorneys' fees. See Note 2 in the notes to our consolidated financial statements for more information.

We recognized royalty revenue as part of license agreements entered into with customers during the patent infringement actions (see "Litigation"). These revenues relate to payment for use of our patented technology prior to the signing of a license agreement, and royalty payments after the execution of the license agreements.

#### Licensing Costs

	2021	2020	2019
Licensing costs	\$ (9,083)	\$ 90,101	\$ —

Included in operating expenses for 2020 was \$90,101 in licensing costs we incurred in conjunction with the proceeds received in the case regarding Apple, Inc. discussed above. Accrued licensing costs of \$9,083 were reversed in the year ended December 31, 2021, as a result of litigation. See Note 12 in the notes to our consolidated financial statements for more information.

#### **Research and Development Expenses**

	2	2021		2020		2019
Research and Development	\$	5,557	\$	8,830	\$	3,845

Research and development costs include expenses paid to outside development consultants and compensation-related expenses for our engineering staff. Research and development costs are expensed as incurred.

Our research and development expenses in 2021 were \$5,557 compared to \$8,830 in 2020 and \$3,845 in 2019. The fluctuation in 2021 compared to 2020 and 2019 was primarily due to changes in engineering staff compensation costs.

#### Selling, General and Administrative Expenses

	 2021	 2020	 2019
Selling, General and Administrative	\$ 52,715	\$ 45,812	\$ 15,905

Selling, general and administrative expenses include compensation costs for management and administrative personnel, as well as expenses for outside legal, accounting, and consulting services.

Our selling, general and administrative expenses in 2021 were \$52,715 compared to \$45,812 in 2020 and \$15,905 in 2019. The volatility within selling, general and administrative expenses was primarily due to legal fees related to cases involving the defense of our patents. Legal fees were \$41,828, \$30,699, and \$5,898 in 2021, 2020 and 2019, respectively and represented approximately 80% of selling, general and administrative expenses for 2021 compared to 67% for 2020 and 37% for 2019.

#### Gain on Settlement

In 2020, we recorded a gain of \$41,271 pursuant to a favorable court ruling in the case regarding Apple, Inc. discussed above. See Note 2 in the notes to our consolidated financial statements for more information.

#### Interest and Other Income, net

	20		2020	2019
Interest and Other Income	\$	48	\$ 108,288	\$ 92

Interest and other income in 2021 was \$48 compared to \$108,288 in 2020 and \$92 in 2019. During 2020 we received interest of \$108,221 pursuant to a favorable court ruling in the case with Apple, Inc. discussed above. See Note 2 in the notes to our consolidated financial statements for more information.

#### **Effective Income Tax Rate**

A reconciliation of the United States federal statutory income tax rate to our effective income tax rate is as follows:

	As restated		
	Year Ended	Year Ended	Year Ended
	December 31, 2021	December 31, 2020	December 31, 2019
United States federal statutory rate	21.00%	21.00%	21.00%
State taxes, net of federal benefit	(0.31)%	0.17%	1.99%
Valuation allowance	_	(12.22)%	(21.96)%
Stock based compensation	(6.68)%	(0.01)%	_
R&D credit	0.19%	(0.21)%	1.34%
Other	(1.57)%	0.06%	(0.38)%
Effective income tax rate	12.63%	8.79%	1.99%

The Company's effective tax rate was substantially lower than the statutory Federal income tax rate primarily due to the expiration of certain stock based compensation. The Company's effective tax rate for both 2020 and 2019 was substantially lower than the statutory Federal income tax rate primarily due to the change in valuation allowance.

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#### **Liquidity and Capital Resources**

As of December 31, 2021, our cash and cash equivalents totaled \$142,018 and our short-term investments totaled \$27,254 compared to \$192,908 and \$28,348, respectively, as of December 31, 2020.

We expect that our cash and cash equivalents and short-term investments as of December 31, 2021, will be sufficient to fund our current level of selling, general and administration costs, including legal expenses and provide related working capital for the foreseeable future. Over the longer term, we expect to derive the majority of our future revenue from license fees and royalties associated with our patent portfolio, technology, software and secure domain name registry and product sales in the United States and other markets around the world.

#### **Universal Shelf Registration and ATM Offering**

On July 30, 2018 we filed a \$100,000 universal shelf registration statement on Form S-3 which was declared effective by the SEC on August 16, 2018. We also entered an at-the-market equity offering sales agreement ("ATM") with Cowen & Company, LLC on August 31, 2018, under which we were able to sell shares of our common stock having an aggregate value of up to \$50,000.

We used the ATM proceeds for development, marketing of our software products and services, and general corporate purposes, such as working capital, capital expenditures, other corporate expenses and potential acquisitions of complementary products, technologies, or businesses. As of August 16, 2021, the universal shelf registration had expired.

We sold zero shares of common stock under the ATM program during 2021. In 2020, we sold 1,049,382 shares of common stock under the ATM program. The average sales price per common share sold during 2020 was \$4.41, and the aggregate proceeds from the sales totaled \$4,627 during the period. Sales commissions, fees and other costs associated with the ATM transactions totaled \$139 for 2020. In 2019, we sold 1,860,483 shares under the ATM. The average sales price per common share during 2019 was \$5.84, and the aggregate proceeds from the sales totaled \$10,866 during the period. Sales commissions, fees and other costs associated with the ATM totaled \$327 for 2019.

#### Item 8. Financial Statements and Supplementary Data

Set forth below, are the audited consolidated financial statements for our company accompanied by all reports thereon of Farber Hass Hurley LLP (PCAOB No. 223)

#### FINANCIAL STATEMENTS

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Consolidated Balance Sheets of VirnetX Holding Corporation as of December 31, 2021 and December 31, 2020	28
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#### REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Board of Directors and Stockholders of VirnetX Holding Corporation

#### **Opinion on the Financial Statements**

We have audited the accompanying consolidated balance sheets of VirnetX Holding Corporation (the "Company") as of December 31, 2021 and 2020, and the related consolidated statements of operations, comprehensive income (loss), stockholders' equity, and cash flows for each of the years in the three-year period ended December 31, 2021, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2021, and 2020, and the results of its operations and its cash flows for each of the years in the three-year period ended December 31, 2021, in conformity with accounting principles generally accepted in the United States of America.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) ("PCAOB"), the Company's internal control over financial reporting as of December 31, 2021, based on criteria established in *Internal Control—Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission ("COSO"), and our report dated March 16, 2022, (May 13, 2022 as to the effects of the material weakness described in Management's Report on Internal Control over Financial Reporting (As Revised), which report expressed an adverse opinion on the Company's internal control over financial reporting because of a material weakness).

#### **Restatement of 2021 Financial Statements**

As discussed in Note 2 to the consolidated financial statements, the 2021 consolidated financial statements have been restated to correct misstatements.

#### **Basis for Opinion**

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

#### **Critical Audit Matter**

The critical audit matter communicated below is a matter arising from the current period audit of the financial statements that was communicated or required to be communicated to the audit committee and that: (1) relate to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective, or complex judgments. The communication of the critical audit matter does not alter in any way our opinion on the financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.

#### Deferred Taxes

Description of the Matter

Audit Procedures

As discussed in Notes 2 and 10 to the financial statements, the Company recorded a deferred tax asset, net of a valuation allowance as of December 31, 2021. In assessing the ability to realize the deferred tax assets, management considers whether it is more likely than not that some portion or all of the deferred tax assets will not be realized. The valuation allowance is based on management's estimates of future taxable income and application of relevant income tax law.

Our determination that valuation of deferred taxes is a critical audit matter results from the significant judgment by management when assessing the ability to realize the deferred tax assets, particularly as it relates to estimates of future taxable income. This in turn led to a high degree of auditor judgment, subjectivity, and effort in performing procedures relating to management's assessment of the realizability of deferred tax assets, as it relates to estimates of future taxable income and application of income tax law.

Our principal audit procedures related to the Company's deferred taxes included the following:

- We evaluated management's assessment of the realizability of deferred tax assets on a jurisdictional basis. This included evaluating estimates of future taxable income, evaluating management's application of income tax law, and testing the completeness and accuracy of underlying data used in management's assessment.
- We evaluated management's estimates of future taxable income which involved evaluating whether the
  estimates used by management were reasonable considering the current and past performance of the
  respective entity and whether the estimates were consistent with evidence obtained in other areas of the
  audit.

/s/ Farber Hass Hurley LLP

We have served as the Company's auditor since 2008.

Chatsworth, California March 16, 2022 (May 13, 2022 as to the effects of Note 2)

# VIRNETX HOLDING CORPORATION CONSOLIDATED BALANCE SHEETS

(in thousands, except share amounts)

		As restated As of December 31, 2021		As of mber 31, 2020
ASSETS				_
Current assets:	ф	1.40.010	ф	100.000
Cash and cash equivalents	\$	142,018	\$	192,908
Investments available for sale  Accounts receivables		27,254		28,348
		17		3.005
Prepaid income tax		202		2,905
Prepaid expenses and other current assets		203	_	263
Total current assets		169,492		224,432
Prepaid expenses and other assets		1,056		1,301
Property and equipment, net		18		11
Deferred tax asset		15,950		9,049
Total assets	\$	186,516	\$	234,793
LIABILITIES AND STOCKHOLDERS' EQUITY				
Current liabilities:				
Accounts payable and accrued liabilities	\$	338	\$	654
Accrued payroll and related expenses		270		220
Accrued licensing costs		355		9,438
Other liabilities, current		58		44
Total current liabilities		1,021		10,356
Other liabilities		46		_
Total liabilities		1,067		10,356
Commitments and contingencies (Note 4)				
Stockholders' equity:				
Preferred stock, par value \$0.0001 per share Authorized: 10,000,000 shares at December 31, 2021 and December 31, 2020, Issued and outstanding: 0 shares at December 31, 2021 and December 31, 2020		_		_
Common stock, par value \$0.0001 per share				
Authorized: 100,000,000 shares at December 31, 2021 and December 31, 2020, Issued and outstanding:				
71,232,856 shares and 71,058,570 shares, at December 31, 2021 and December 31, 2020, respectively		7		7
Additional paid-in capital		236,445		232,457
Accumulated deficit		(50,935)		(8,014)
Accumulated other comprehensive loss		(68)		(13)
Total stockholders' equity		185,449		224,437
Total liabilities and stockholders' equity	\$	186,516	\$	234,793

#### VIRNETX HOLDING CORPORATION CONSOLIDATED STATEMENTS OF OPERATIONS

(in thousands, except share and per share amounts)

	As restated Year Ended December 31, 2021	Year Ended December 31, 2020	Year Ended December 31, 2019
Revenue	\$ 35	\$ 302,636	\$ 85
Operating expense:			
Licensing costs	(9,083)	90,101	_
Research and development	5,577	8,830	3,845
Selling, general and administrative expenses	52,715	45,812	15,905
Total operating expense	49,209	144,743	19,750
(Loss) income from operations	(49,174)	157,893	(19,665)
Gain on settlement	_	41,271	_
Interest and other income, net	48	108,288	92
(Loss) income before taxes	(49,126)	307,452	(19,573)
Income tax benefit (provision)	6,205	(27,023)	393
Net (loss) income	\$ (42,921)	\$ 280,429	\$ (19,180)
Basic (loss) earnings per share	\$ (0.60)	\$ 3.96	\$ (0.28)
Diluted (loss) earnings per share	\$ (0.60)	\$ 3.92	\$ (0.28)
Weighted average shares outstanding basic	71,159,458	70,850,311	68,564,321
Weighted average shares outstanding diluted	71,159,458	71,615,843	68,564,321

# VIRNETX HOLDING CORPORATION CONSOLIDATED STATEMENTS OF COMPREHENSIVE (LOSS) INCOME (in thousands)

	As restated Year Ended December 31, 2021		Year Ended December 31, 2020		Year Ended December 31, 2019	
Net (loss) income	\$	(42,921)	\$	280,429	\$	(19,180)
Other comprehensive (loss) income, net of tax:						
Change in unrealized (loss) gain on investments, net		(51)		_		3
Change in foreign currency translation, net		(4)		1		(3)
Total other comprehensive (loss) gain, net of tax		(55)		1		_
Comprehensive (loss) income	\$	(42,976)	\$	280,430	\$	(19,180)

# VirnetX Holding Corporation CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY (in thousands, except share amounts)

	As restated Year Ended December 31, 2021	Year Ended December 31, 2020	Year Ended December 31, 2019	
Total shareholders' equity, beginning balances	\$ 224,437	\$ 5,628	\$ 9,888	
Common stock and additional paid-in capital:	222.464	222.244	200.224	
Beginning balances  Common stock issued for cash, net	232,464	223,244	208,324	
Common stock issued for options/RSUs, net	(196)	4,488 690	10,539 670	
Warrants issued for services	(190)	104	0/0	
Stock-based compensation	4,184	3,938	3,711	
Ending balances	236,452	232,464	223,244	
Ending balances	230,432	232,404	223,244	
Accumulated deficit (retained earnings)				
Beginning balances	(8,014)	(217,602)	(198,422)	
Net (loss) income	(42,921)	280,429	(19,180)	
Dividends		(70,841)		
Ending balances	(50,935)	(8,014)	(217,602)	
A constitution of the cons				
Accumulated other comprehensive loss:	(12)	(1.4)	(1.4)	
Beginning balances Change in unrealized investment (loss) gain, net	(13)	(14)	(14)	
Change in foreign currency translation, net	(51)	1	(3)	
	(4)	(12)		
Ending balances	(68)	(13)	(14)	
Total shareholders' equity, ending balances	\$ 185,449	\$ 224,437	\$ 5,628	
Dividends per share	<u> </u>	\$ 1.00	<u> </u>	

#### VIRNETX HOLDING CORPORATION CONSOLIDATED STATEMENTS OF CASH FLOWS (in thousands)

Cash flows from operating activities:	As restated Year Ended December 31, 2021		Year Ended December 31, 2020	Year Ended December 31, 2019	
Cash nows from operating activities.					
Net (loss) income	\$ (42	,921)	\$ 280,429	\$ (19,180)	
Adjustments to reconcile net (loss) income to					
net cash from operating activities:					
Depreciation		4	5	7	
Stock-based compensation	4	,184	3,938	3,711	
Amortization of warrants issuance costs		34	69	_	
Deferred income taxes	(6	,901)	(9,049)	_	
Changes in assets and liabilities:					
Prepaid expenses and other current assets		271	419	374	
Accounts payable and accrued liabilities		(316)	(692)	296	
Other liabilities		60	(193)	97	
Accrued payroll and related expenses		50	(67)	10	
Accrued licensing costs	(9	,083)	9,438	_	
Accounts receivable		(9)	(3)	1	
Prepaid income taxes		,905	(2,905)	(396)	
Net cash (used in) provided by operating activities	(51	,722)	281,389	(15,080)	
Cash flows from investing activities:					
Purchase of property and equipment		(11)	_	(14)	
Purchase of investments	(26	,332)	(33,065)	(5,784)	
Proceeds from sale or maturity of investments		,371	7,112	5,192	
Net cash provided by (used in) investing activities		,028	(25,953)	(606)	
Carlo Clara Constitution and Miles					
Cash flows from financing activities:			1.040	010	
Proceeds from exercise of options Proceeds from sale of common stock		_	1,046 4,488	816	
Dividends paid on common stock		_	(70,841)	10,539	
Taxes paid on cashless exercise of restricted stock units		(196)		(145)	
•			(356)	(145)	
Net cash (used in) provided by financing activities		(19 <del>6</del> )	(65,663)	11,210	
Net (decrease) increase in cash and cash equivalents	•	,890)	189,773	(4,476)	
Cash and cash equivalents, beginning of period		,908	3,135	7,611	
Cash and cash equivalents, end of period		,018	\$ 192,908	\$ 3,135	
Cash paid for income taxes	\$	2	\$ 38,977	\$ 4	

# VirnetX Holding Corporation NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (in thousands except share, per share and per device amounts)

#### Note 1 - Formation and Business of the Company

VirnetX Holding Corporation, which we refer to as "we", "us", "our", "the Company" or "VirnetX", is engaged in the business of commercializing a portfolio of patents. We derive revenue from selling our software products and licensing our technology, including GABRIEL Connection Technology™, to various original equipment manufacturers ("OEMs"), that use our technologies in the development and manufacturing of their own products within the IP-telephony, mobility, fixed-mobile convergence, and unified communications markets. During 2020, we had revenues from settlement of a patent infringement dispute whereby we received consideration for past sales of licensee that utilized our technology, where there was no prior patent license agreement.

Our portfolio of intellectual property is the foundation of our business model. We currently own approximately 205 total patents and pending applications, including 72 U.S. patents/patent applications and 133 foreign patents/validations/pending applications. Our patent portfolio is primarily focused on securing real-time communications over the Internet, as well as related services such as the establishment and maintenance of a secure domain name registry. Our patented methods also have additional applications in the key areas of device operating systems and network security for Cloud services, M2M communications in areas of Smart City, Connected Car and Connected Home. The subject matter of all our U.S and foreign patents and pending applications relates generally to securing communications over the Internet and such covers all our technology and other products. Some of our issued U.S. and foreign patents expire at various times during the period from 2021 to 2034.

#### **Note 2 – Summary of Significant Accounting Policies**

The preparation of financial statements in conformity with accounting principles generally accepted in the United States requires us to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reported period. The critical accounting policies we employ in the preparation of our consolidated financial statements are those which involve impairment of long-lived assets, income taxes, fair value of financial instruments and stock-based compensation.

#### Restatement of Previously issued Financial Statements

On March 16, 2022, the Company filed with the SEC the Original Form 10-K, together with all exhibits thereto, which included consolidated financial statements as of December 31, 2021 and 2020 and for the years ended December 31, 2021, 2020 and 2019. On May 9, 2022, Company management concluded the December 31, 2021 consolidated financial statements included in the Original Form 10-K should no longer be relied upon because of an error related to accounting for deferred taxes. The error was deemed material to the consolidated financial statements for the year ended December 31, 2021 and resulted in a restatement more fully described below.

The error related to the carrying balance of our deferred taxes that included the fair value of nonqualified stock options ("NSO") expensed for book purposes but the tax impact of that expense is deferred for income tax purposes. In connection with accounting for NSOs, the Company expenses the fair value of NSOs granted over the vesting period of the NSOs. For income tax purposes, the tax impact of that expense is deferred as part of our deferred tax asset, until the NSO holder converts the NSO to stock, at which time the deferred tax asset is reduced and income tax expense is recognized. If an NSO is never exercised, and then expires in accordance with the terms of the contract, any amounts included in our deferred tax asset are written off and income tax expense is recognized. As of December 31, 2021, the Company incorrectly included \$3,328 in deferred tax assets related to expired NSOs as of the end of the Affected Period, which should have reduced our income tax benefit when the NSOs expired.

The Company has restated the consolidated financial statements as of and for the year ended December 31, 2021 from amounts previously reported on the Original Form 10-K to reduce our deferred tax asset in our consolidated balance sheet and our income tax benefit in our consolidated statement of operations by \$3,328; the restatement also resulted in changes to Note 2 - Summary of Significant Accounting Policies, *Restatement of Previously Issued Financial Statements*, Note 7 – Earnings per share and Note 10 – Income Taxes.

The following tables present the impact of the restatement adjustment on the previously issued consolidated financial statements and footnotes as of and for the year ended December 31, 2021:

		As of and for the year ended				
				ber 31, 2021		
		As Previously Restatement Reported Adjustment		As Restated		
Consolidated Balance Sheet		eporteu	Au	justilient	А	Restateu
Deferred tax asset	\$	19,278	\$	(3,328)	\$	15,950
Total assets	Ą	189,844	Ф	(3,328)	Ф	186,516
Accumulated deficit				(3,328)		
Total stockholders' equity		(47,607) 188,777		(3,328)		(50,935) 185,449
Total liabilities and stockholders' equity		189,844		(3,328)		186,516
Total Habilities and Stockholders equity		105,044		(3,320)		100,510
Consolidated Statement of Operations						
Income tax benefit	\$	9,533	\$	(3,328)	\$	6,205
Net loss	Ψ	(39,593)	Ψ	(3,328)	Ψ	(42,921)
Basic loss per share		(0.56)		(0.04)		(0.60)
Diluted loss per share		(0.56)		(0.04)		(0.60)
Direct 1000 per olitate		(0.50)		(0.01)		(0.00)
Consolidated Statement of Comprehensive Loss						
Net loss	\$	(39,593)	\$	(3,328)	\$	(42,921)
Comprehensive loss		(39,648)		(3,328)		(42,976)
•		( ) )		( ) ,		( , ,
Consolidated Statement of Stockholders' Equity						
Net loss	\$	(39,593)	\$	(3,328)	\$	(42,921)
Ending balance, accumulated deficit		(47,607)		(3,328)		(50,935)
Total liabilities and stockholders' equity		188,777		(3,328)		185,449
·						
Consolidated Statement of Cash Flows						
Net loss	\$	(39,593)	\$	(3,328)	\$	(42,921)
Deferred income taxes		(10,229)		3,328		(6,901)
Note 7 - Earnings per share						
Net loss	\$	(39,593)	\$	(3,328)	\$	(42,921)
Basic loss per share		(0.56)		(0.04)		(0.60)
Diluted loss per share		(0.56)		(0.04)		(0.60)
Note 10 - Income Taxes, income tax provision						
Deferred income tax benefit, Federal	\$	(10,293)	\$	(3,268)	\$	(7,025)
Deferred income tax benefit, State		64		60		124
Total deferred income tax benefit		(10,229)		(3,208)		(6,901)
Total income tax benefit		(9,533)		3,328		(6,205)
Note 10 - Income Taxes, reconciliation of income tax rate						
State taxes, net of federal benefit		(0.19)%		(0.12)%		$(0.31)^{\circ}$
Stock based compensation		(0.02)%		(6.66)%		$(6.68)^{\circ}$
Effective income tax rate		19.41%		(6.78)%	)	12.63%
Note 10 Income Toyes deferred toy						
Note 10 - Income Taxes, deferred tax assets	ф	0.615	¢	(2.220)	¢	6.207
Stock based compensation	\$	9,615	\$	(3,328)	\$	6,287
Total deferred tax assets		19,284		(3,328)		15,956
Deferred tax assets after valuation allowance		19,284		(3,328)		15,956
Net deferred tax assets		19,278		(3,328)		15,950

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#### **Use of Estimates**

We prepare our consolidated financial statements in accordance with U.S. GAAP. In doing so, we have to make estimates and assumptions that affect our reported amounts of assets, liabilities, revenues, and expenses, as well as related disclosure of contingent assets and liabilities. In some cases, we could reasonably have used different accounting policies and estimates. In some cases, changes in the accounting estimates are reasonably likely to occur from period to period. Accordingly, actual results could differ materially from our estimates. To the extent that there are material differences between these estimates and actual results, our financial condition or results of operations will be affected. We base our estimates on past experience and other assumptions that we believe are reasonable under the circumstances, and we evaluate these estimates on an ongoing basis. We refer to accounting estimates of this type as critical accounting policies and estimates, which we discuss further below. We have reviewed our critical accounting policies and estimates with the Audit Committee of our Board of Directors.

# **Basis of Consolidation**

The consolidated financial statements include the accounts of VirnetX Holding Corporation and our wholly owned subsidiaries. All intercompany balances and transactions have been eliminated.

# Leases

The Company determines if an arrangement is a lease at inception in accordance with Accounting Standards Codification ("ASC") Topic 842. Operating lease right-of-use ("ROU") assets are included in Prepaid expenses, and other assets on the Condensed Consolidated Balance Sheets. ROU assets represent the Company's right to use an underlying asset for the lease term and lease liabilities represent the Company's obligation to make lease payments arising from the lease. ROU assets and lease liabilities are recognized at the commencement date based on the present value of lease payments over the lease term.

# **Revenue Recognition**

The Company derives revenue from licensing and royalty fees from contracts with customers which often span several years. We account for this revenue in accordance with Accounting Standards Codification Topic 606, Revenue from Contracts with Customers. A performance obligation is a promise in a contract to transfer a distinct good or service to the customer. A contract's transaction price is allocated to each distinct performance obligation and recognized as revenue when, or as, the performance obligation is satisfied. Our revenue arrangements may consist of multiple-element arrangements, with revenue for each unit of accounting recognized as the product or service is delivered to the customer.

With the licensing of our patents, performance obligations are generally satisfied at a point in time as work is complete when our patent rights are transferred to our customers. We generally have no further obligation to our customers regarding our technology.

Certain contracts may require our customers to enter into a hosting arrangement with us and for these arrangements, revenue is recognized over time, generally over the life of the servicing contract.

The Company actively monitors and enforces its intellectual property ("IP") rights, including seeking appropriate compensation from third parties that utilize the Company's IP without a license. As a result, the Company may, from time to time, receive payments as part of a settlement or compensation for a patent infringement dispute. Proceeds received are allocated to each element identified in the settlement or compensation, based on the fair value of each element. Generally, settlements and compensation may include the following elements: the value of a license or royalty agreement, cost reimbursement, damages, and interest. Elements identified related to licensing and royalty are recognized as revenue. Elements identified as reimbursed costs are generally recorded as a reduction to the reported expenses. Elements identified as damages or interest are generally recorded in other income in the condensed consolidated statement of operations. During the year ended December 31, 2020, the Company collected a lump sum payment of \$454,034 from Apple, Inc., because of a favorable court decision relating to a patent infringement case. The court decision identified the following as the basis of the award: \$302,428 for past royalties, \$41,271 in damages for willful infringement, \$108,221 for interest, and \$2,114 in reimbursement for court costs and attorney's fees. Elements of the payment were recognized in the Company's condensed consolidated statement of operations as follows:

Classification of Payment Received in the Company's Condensed Consolidated Statement of Operations Year Ended:

	Decem	ber 31, 2020
Revenue (royalties)	\$	302,428
Operating expenses: selling, general and administrative (reimbursed litigation costs)		2,114
Other income: gain (willful infringement)		41,271
Other income: interest income (pre- and post-judgment interest)		108,221
Total cash received	\$	454,034

#### **Licensing Costs**

Included in operating expenses are licensing costs we incurred in conjunction with the proceeds received from Apple Inc., pursuant to a favorable court decision relating to a patent infringement case.

#### **Contingent Gains**

ASC Topic 450-30-25, Contingent Gains, prohibits recognition of contingent gains until realized. Accordingly, we do not record contingent gains ahead of such realization. Management generally considers any such gains as realized only upon the collection of cash.

# Cash and Cash Equivalents

We consider all highly liquid investments purchased with original maturities of three months or less at the date of purchase to be cash equivalents. Our cash and cash equivalents are not subject to significant interest rate risk due to the short maturities of these investments.

#### **Investments**

Investments are classified as available-for-sale and are recorded at fair market value. Unrealized gains and losses are reported as other comprehensive income. Realized gains and losses are recorded in income in the period they are realized using specific identification of each security's cost basis. We invest our excess cash primarily in highly liquid debt instruments including corporate, government and federal agency securities, with contractual maturities less than two years. By policy, we limit the amount of credit exposure to any one issuer.

#### **Property and Equipment**

Property and equipment are stated at historical cost, less accumulated depreciation, and amortization. Depreciation and amortization are computed using the accelerated and straight-line methods over the estimated useful lives of the assets, which range from five to seven years. Repair and maintenance costs are charged to expense as incurred.

#### Concentration of Credit Risk and Other Risks and Uncertainties

Our cash and cash equivalents are primarily maintained at two major financial institutions in the United States. Deposits held with these financial institutions may exceed the amount of insurance provided on such deposits. A portion of those balances are insured by the Federal Deposit Insurance Corporation, or FDIC. In 2021, we had, at times, funds that were uninsured. We do not believe that we are subject to any unusual financial risk beyond the normal risk associated with commercial banking relationships. We have not experienced any losses on our deposits of cash and cash equivalents.

#### Fair Value

The carrying amounts of our financial instruments, including cash equivalents, accounts payable, and accrued liabilities, approximate fair value because of their generally short maturities.

#### **Intangible Assets**

We record intangible assets at cost, less accumulated amortization. Amortization of intangible assets is provided over their estimated useful lives, which can range from 3 to 15 years, on either a straight-line basis or as revenue is generated by the assets.

#### **Impairment of Long-Lived Assets**

We identify and record impairment losses on long-lived assets used in operations when events and changes in circumstances indicate that the carrying amount of an asset might not be recoverable, but not less than annually. Recoverability is measured by comparison of the anticipated future net undiscounted cash flows to the related assets' carrying value. If such assets are considered to be impaired, the impairment to be recognized is measured by the amount by which the carrying amount of the assets exceeds the projected discounted future net cash flows arising from the asset.

#### Research and Development

Research and development costs include expenses paid to outside development consultants and compensation related expenses for our engineering staff. Research and development costs are expensed as incurred.

#### **Income Taxes**

We account for income taxes using the asset and liability method. The asset and liability method requires the recognition of deferred tax assets and liabilities for expected future tax consequences of temporary differences that currently exist between the tax basis and financial reporting basis of our assets and liabilities. We calculate current and deferred tax provisions based on estimates and assumptions that could differ from actual results reflected on the income tax returns filed during the following years. Adjustments based on filed returns are recorded when identified in the subsequent years. The effect on deferred taxes for a change in tax rates is recognized in income in the period that the tax rate change is enacted. In assessing our deferred tax assets, we consider whether it is more likely than not that all or some portion of the deferred tax assets will not be realized.

A valuation allowance is provided for deferred income tax assets when, in our judgment, based upon currently available information and other factors, it is more likely than not that all or a portion of such deferred income tax assets will not be realized. The determination of the need for a valuation allowance is based on an on-going evaluation of current information including, among other things, historical operating results, estimates of future earnings in different taxing jurisdictions and the expected timing of the reversals of temporary differences. We believe the determination to record a valuation allowance to reduce a deferred income tax asset is a significant accounting estimate because it is based, among other things, on an estimate of future taxable income in the United States and certain other jurisdictions, which is susceptible to change and may or may not occur, and because the impact of adjusting a valuation allowance may be material. In determining when to release the valuation allowance established against our net deferred income tax assets, we consider all available evidence, both positive and negative. We continually assess our ability to generate sufficient taxable income during future periods in which our deferred tax assets may be realized. If and when we believe it is more likely than not that we will recover our deferred tax assets, we will reverse the valuation allowance as an income tax benefit in our statements of operations.

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We account for our uncertain tax positions in accordance with U.S. GAAP, which utilizes a two-step approach to evaluate tax positions. Step one, recognition, requires evaluation of the tax position to determine if based solely on technical merits it is more likely than not to be sustained upon examination. Step two, measurement, is addressed only if a position is more likely than not to be sustained. In step two, the tax benefit is measured as the largest amount of benefit, determined on a cumulative probability basis, which is more likely than not to be realized upon ultimate settlement with tax authorities. If a position does not meet the more likely than not threshold for recognition in step one, no benefit is recorded until the first subsequent period in which the more likely than not standard is met, the issue is resolved with the taxing authority, or the statute of limitations expires. Positions previously recognized are derecognized when we subsequently determine the position no longer is more likely than not to be sustained. Evaluation of tax positions, their technical merits, and measurements using cumulative probability are highly subjective management estimates. Actual results could differ materially from these estimates.

#### **Stock-Based Compensation**

We account for stock-based compensation using the fair value recognition method in accordance with U.S. GAAP. We recognize these compensation costs on a straight-line basis over the requisite service period of the award, which is generally a vesting term of 4 years. We recognize forfeitures, if any, when they occur. In addition, we record stock-based compensation expense for awards granted to non-employees at fair value of the consideration received or the fair value of the equity instruments issued, as they vest, over the performance period (See Note 6 - Stock-Based Compensation).

#### Earnings per Share

Basic earnings per share are computed by dividing earnings available to common stockholders by the weighted average number of outstanding common shares during the period. Diluted earnings per share is computed by dividing net income by the weighted average number of shares outstanding during the period increased to include the number of additional shares of common stock that would have been outstanding if the potentially dilutive securities had been issued.

#### **New Accounting Pronouncements**

In December 2019, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") 2019-12 Income Taxes (Topic 740). The amendments in this ASU simplify the accounting for income taxes by removing certain exceptions to the general principles in Topic 740. The amendments also improve consistent application of and simplify U. S. GAAP for other areas of Topic 740 by clarifying and amending existing guidance. The amendments in this ASU are effective for fiscal years, and interim periods within those fiscal years, beginning after December 15, 2020. We adopted this ASU on January 1, 2021 and there was no material impact on our financial position or cash flows as a result.

#### Note 3 - Property and Equipment

Our major classes of property and equipment were as follows:

	December 31			
	20	21	2	2020
Office furniture	\$	79	\$	79
Computer equipment		92		81
Total		171		160
Less accumulated depreciation		(153)		(149)
Total property and equipment, net	\$	18	\$	11

Depreciation expense for 2021, 2020 and 2019 was \$4, \$5, and \$7 respectively.

#### Note 4 – Commitments, Contingencies and Related Party Transactions

We lease our offices under an operating lease with a third party expiring in October 2023. We recognize rent expense on a straight-line basis over the term of the lease. Rent expense was \$56, for each of the years 2021, 2020 and 2019. Future minimum rents due under the lease total \$56 in 2022 and \$46 in 2023 when the lease expires.

We entered into a service agreement for the use of an aircraft from K2 Investment Fund LLC ("LLC") for business travel for employees of the Company. We incurred approximately \$791, \$324, and \$1,790 in rental fees and reimbursements to the LLC during the years 2021, 2020 and 2019, respectively. We pay for the Company's usage of the aircraft and have no rights to purchase. Our Chief Executive Officer and Chief Administrative Officer are the managing partners of the LLC and control the equity interests of the LLC. We entered into a 12-month non-exclusive agreement with the LLC for use of the plane at a rate of \$8 per flight hour, with no minimum usage requirement. The agreement contains other terms and conditions normal in such transactions and can be cancelled by either us or the LLC with 30 days' notice. The agreement renews on an annual basis unless terminated by either party. Neither party has exercised their termination rights.

#### Note 5 - Stock Plan

We have an equity incentive plan for employees and others called the VirnetX Holding Corporation 2013 Equity Incentive Plan (the "2013 Plan"), which has been approved by our stockholders. To the extent that any award should expire, become unexercisable or is otherwise forfeited, the shares subject to such award will again become available for issuance under the 2013 Plan. The 2013 Plan provides for the granting of stock options and restricted stock units purchase rights ("RSUs") to our employees and consultants. Stock options granted under the 2013 Plan may be incentive stock options or nonqualified stock options. Incentive stock options ("ISOs") may only be granted to our employees (including officers and directors). Nonqualified stock options ("NSOs") and stock purchase rights may be granted to our employees and consultants. The 2013 Plan expires in 2023.

In April 2021, the Board approved an amendment and restatement of the 2013 Plan to, among other things, increase the shares reserved under the Plan by 2,500,000 shares (the "Plan Amendment"). Our stockholders approved the Plan Amendment at the 2021 Annual Meeting of the Stockholders held on June 3, 2021. The 2013 Plan generally provides for the granting of shares of our common stock, including stock options and RSUs. Options may be granted under the 2013 Plan with an exercise price determined by our Board of Directors, or a duly appointed committee thereof, provided, however, that the exercise price of an option granted to any employee shall be not less than 100% of the fair market value at the date of grant in the case of ISOs or 85% of the fair market value at the date of grant in the case of an NSO. The exercise price of an ISO or NSO granted to one of our Named Executive Officers shall not be less than 100% fair market value of the shares at the date of grant and the exercise price of an ISO granted to a 10% shareholder shall not be less than 110% of the fair market value of the shares on the date of grant. Stock options granted under the 2013 Plan typically vest over four years and have a 10-year term. All RSUs are considered to be granted at the fair value of our stock on the date of grant because they have no exercise price. RSUs typically vest over four years. As of December 31, 2021, there were 2,240,296 shares available for grant under the 2013 Plan.

#### **Note 6 – Stock-Based Compensation**

The following tables summarize information about stock options and RSUs outstanding at December 31, 2021:

Opti	ons Outstanding			Options	Vested and Exe	rcis	able
Range of Exercise Prices	Number Outstanding	Weighted Average Remaining Contractual Life (Years)	Weighted Average Exercise Price	Number Exercisable	Weighted Average Remaining Contractual Life (Years)		Weighted Average Exercise Price
\$ 2.88 - 6.95	5,533,812	6.66	\$ 4.50	4,050,084	5.82	\$	4.34
\$ 14.52 - 35.25	863,625	1.31	\$ 22.95	863,625	1.32	\$	22.95
	6,397,437	5.94	\$ 6.99	4,913,709	5.03	\$	7.61

The following tables summarize activity under the Plan for the indicated periods:

	Options						
	Number of Shares		Weighted Average Exercise Price	Weighted Average Remaining Contractual Life (Years)		Aggregate Intrinsic Value	
Outstanding at December 31, 2018	5,998,837	\$	7.72	_	\$	_	
Options granted	345,000		6.06	_		_	
Options exercised	(663,816)		1.23	_		_	
Options cancelled	(50,000)		4.95				
Outstanding at December 31, 2019	5,630,021	\$	8.49		\$	_	
Options granted	747,500		6.07	_		_	
Options exercised	(262,031)		3.99	_		_	
Options cancelled	(302,969)		5.30	_		_	
Outstanding at December 31, 2020	5,812,521	\$	8.55		\$	_	
Options granted	999,500		4.43	_		_	
Options exercised	_		_	_		_	
Options cancelled	(414,584)		22.54	_		_	
Outstanding at December 31, 2021	6,397,437	\$	6.99	5.94	\$	6	
Options exercisable at December 31, 2021	4,913,709	\$	7.61	5.03	\$	6	

		RSUs				
	Number of RSUs					
Outstanding at December 31, 2018	504,994	\$ 3.83	\$ —			
RSUs granted	229,996	6.06	<u> </u>			
RSUs vested	(207,334)	4.07				
RSUs cancelled	(29,167)	4.65	_			
Outstanding at December 31, 2019	498,489	\$ 4.71	\$ —			
RSUs granted	218,329	6.89	_			
RSUs vested	(212,495)	4.63	_			
RSUs cancelled	_	_	. <u> </u>			
Outstanding at December 31, 2020	504,323	\$ 5.69	\$ —			
RSUs granted	236,661	4.61	_			
RSUs vested	(215,165)	5.23	_			
RSUs cancelled	(16,664)	5.45				
Outstanding at December 31, 2021	509,155	\$ 5.38	\$ —			

Intrinsic value is calculated as the difference between the per-share market price of our common stock on the last trading day of 2021, which was \$2.60 and the exercise price of the options. For options exercised, the intrinsic value is the difference between market price and the exercise price on the date of exercise. In 2021, no options were exercised. In 2020 and 2019, we received cash proceeds of \$1,046 and \$816 from stock options exercised, respectively. The total intrinsic value of options exercised was \$151 and \$2,473 in 2020 and 2019, respectively.

Stock-based compensation expense is included in operating expense for each period as follows:

	Year Ended	Year Ended	Year Ended
Stock-Based Compensation by Type of Award	December 31, 2021	December 31, 2020	December 31, 2019
Stock options	\$ 3,067	\$ 2,872	\$ 2,756
RSUs	1,117	1,066	955
Total stock-based compensation expense	\$ 4,184	\$ 3,938	\$ 3,711

As of December 31, 2021, there was \$5,403 of unrecognized stock-based compensation expense related to unvested stock options and \$2,098 of unrecognized stock-based compensation expense related to unvested RSUs. These costs are expected to be recognized over a weighted-average period of 2.86 and 2.37 years, respectively.

The fair value of each option grant was estimated on the date of grant using the Black-Scholes option pricing model using the following weighted average assumptions:

	Year Ended	<b>Year Ended</b>	Year Ended
	<b>December 31, 2021</b>	December 31, 2020	December 31, 2019
Expected stock price volatility	90.58%	93.45%	92.34%
Risk-free interest rate	1.06%	0.63%	2.09%
Expected life term	6.22 years	6.21 years	6.14 years
Expected dividends	0%	0%	0%

Based on the Black-Scholes option pricing model, the weighted average estimated fair value of employee stock options granted was \$3.32, \$4.62 and \$4.63 per share during 2021, 2020 and 2019, respectively.

The expected life was determined using the simplified method outlined in ASC 718, "*Compensation - Stock Compensation*". Expected volatility of the stock options was based upon historical data and other relevant factors.

# Note 7 - Earnings Per Share

Basic earnings per share are based on the weighted average number of shares outstanding for a period. Diluted earnings per share are based upon the weighted average number of shares and potentially dilutive common shares outstanding. Potential common shares outstanding principally include stock options and RSUs under our stock plan and warrants. During 2021 and 2019, we incurred losses; therefore, the effect of any common stock equivalent would be anti-dilutive during the years.

The table below sets forth the basic and diluted loss per share calculations:

	As restated Year Ended December 31, 2021 I		Year Ended Year Ended			ear Ended mber 31, 2019
Net (loss) income	\$	(42,921)	\$	280,429	\$	(19,180)
Basic weighted average number of shares outstanding Effect of dilutive securities		71,159 —		70,850 766		68,564 —
Diluted weighted average number of shares outstanding		71,159		71,616		68,564
Basic (loss) earnings per share Diluted (loss) earnings per share	\$ \$	(0.60) (0.60)		3.96 3.92	\$ \$	(0.28) (0.28)

#### Note 8 - Common Stock

Each share of common stock has the right to one vote. The holders of common stock are entitled to receive dividends whenever funds are legally available and when declared by our Board of Directors, subject to the prior rights of holders of all classes of stock outstanding having priority rights as to dividends. Our restated articles of incorporation authorize us to issue up to 100,000,000 shares of \$0.0001 par value common stock.

On July 30, 2018 we filed a \$100,000 universal shelf registration statement on SEC Form S-3. This replacement registration statement was declared effective by the SEC on August 16, 2018. We also entered a new ATM with Cowen on August 31, 2018, under which we could offer and sell shares of our common stock having an aggregate value of up to \$50,000.

We use the ATM proceeds for development and marketing of our software product and services, and general corporate purposes, which may include working capital, capital expenditures, other corporate expenses and acquisitions of complementary products, technologies, or businesses. As of August 16, 2021, the universal shelf registration expired.

We sold zero shares of common stock under the ATM program during 2021. In 2020, we sold 1,049,382 shares of common stock under the ATM program. The average sales price per common share sold during the year ended December 31, 2020 was \$4.41 and the aggregate proceeds from the sales totaled \$4,627 during the period. Sales commissions, fees and other costs associated with the ATM transactions totaled \$139 for 2020. In 2019, we sold 1,860,483 shares under the ATM. The average sales priced during the year ended December 31, 2019 per common share was \$5.84 and the aggregate proceeds from the sales totaled \$10,866 during the period. Sales commissions, fees and other costs associated with the ATM totaled \$327.

#### Dividends

On May 8, 2020, we declared a one-time cash dividend to shareholders of record as of the close of business on May 18, 2020 of \$1 per share of common stock, payable on May 26, 2020. The timing and amounts of future dividends, if any, will depend on market conditions, corporate business and financial considerations and regulatory requirements.

#### Warrants

In 2020, we issued warrants for the purchase of 25,000 shares of common stock at an exercise price of \$5.75 per share, exercisable on the date of grant expiring in April 2025. The weighted average fair value at the grant date was \$4.16 per warrant. The fair value at the grant date was estimated utilizing the Black-Scholes valuation model with the following weighted average assumptions (i) dividend yield on our common stock of 0 percent (ii) expected stock price volatility of 97 percent (iii) a risk-free interest rate of 0.27 percent and (iv) and expected option term of 5 years.

		Outstanding and				Outstanding and	
Warrants	Exercise	Exercisable			Terminated /	Exercisable	
Issued	Price	December 31, 2020	Issued	Exercised	Cancelled	December 31, 2021	<b>Expiration Date</b>
25,000	\$5.75	25,000			_	25,000	April 30, 2025

In April 2020, 25,000 warrants with an exercise price of \$7.00 per share expired.

#### Note 9 - Employee Benefit Plan

We sponsor a defined contribution 401k plan covering substantially all our employees. Our matching contribution to the plan was approximately \$145, \$112, and \$101 in 2021, 2020 and 2019, respectively.

# **Note 10 - Income Taxes**

The income tax provision (benefit) is comprised of the following:

Current:	As restated Year Ended December 31, 2021		_	ear Ended mber 31, 2020	Year Ended December 31, 20	
Federal	\$	661	\$	35,122	\$	_
State		35		950		(393)
Foreign		_		_		_
		696		36,072		(393)
Deferred:						
Federal		(7,025)		(8,816)		_
State		124		(233)		_
		(6,901)		(9,049)		
Total income tax (benefit) provision	\$	(6,205)	\$	27,023	\$	(393)

A reconciliation of the United States federal statutory income tax rate to our effective income tax rate is as follows:

	As restated		
	Year Ended	Year Ended	Year Ended
	December 31, 2021	December 31, 2020	December 31, 2019
United States federal statutory rate	21.00%	21.00%	21.00%
State taxes, net of federal benefit	(0.31)%	0.17%	1.99%
Valuation allowance	_	(12.22)%	(21.96)%
Stock based compensation	(6.68)%	(0.01)%	_
R&D Credit	0.19%	(0.21)%	1.34%
Other	(1.57)%	0.06%	(0.38)%
Effective income tax rate	12.63%	8.79%	1.99%

The Company's effective tax rate for 2021 was substantially lower than the statutory Federal income tax rate primarily due to stock-based compensation and expiring stock options requiring us to reduce our deferred tax asset. The Company's effective tax rate for both 2020 and 2019 was significantly lower than the statutory federal income tax rate primarily due to the change of valuation allowance. Due to the income in 2020, our valuation allowance against federal net deferred tax assets was fully released in 2020.

Deferred tax assets (liabilities) consist of the following:

Deferred tax assets:	s restated As of nber 31, 2021	Dec	As of ember 31, 2020
Reserves and accruals	\$ 58	\$	48
Research and development credits and other credits	92		13
Net operating loss carry forward	9,519		598
Stock based compensation	6,287		8,998
Other	 <u> </u>		3
Total deferred tax assets	\$ 15,956	\$	9,660
Valuation allowance	_		(611)
Deferred tax assets after valuation allowance	15,956		9,049
Total deferred tax liability – depreciation	 (6)		<u> </u>
Net deferred tax assets	\$ 15,950	\$	9,049

In 2021, 2020 and 2019, we had pre-tax losses of \$49,126, pre-tax income of \$307,452, and pre-tax losses of \$19,573, respectively. At December 31, 2021, we had federal and state net operating loss carryforwards of approximately \$45,326 and \$107,989, respectively. However, none of the state net operating loss carryover is apportioned to a deferred tax asset, because currently we do not have operations in the state where losses accumulated. The state net operating loss carryforward will be expiring beginning in 2029.

A valuation allowance is provided for deferred tax assets when, in our judgment, based upon currently available information and other factors, it is more likely than not that all or a portion of such deferred income tax assets will not be realized; management determined no valuation allowance is necessary for 2021.

We are required to recognize the financial statement effects of a tax position when it is more likely than not, based on the technical merits, that the position will be sustained upon examination. At December 31, 2021, we have no uncertain tax positions.

Our tax years for 2005 and forward are subject to examination by the U.S. tax authority and various state tax authorities. These years are open due to NOLs and tax credits generated in these years were utilized in 2020. The statute of limitation for these years shall expire three years after the date of filing 2020 income tax returns.

Our policy is to recognize interest and penalties, if any, accrued on any unrecognized tax benefits, as a component of income tax expense. We had no interest or penalties accrued for 2021 and 2020.

#### Note 11 - Fair Value Measurement

Fair value is the price that would result from an orderly transaction between market participants at the measurement date. A fair value hierarchy prioritizes the inputs used to measure fair value. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurement) and the lowest priority to unobservable inputs (Level 3 measurement). Level 2 measurements utilize either directly or indirectly observable inputs in markets other than quoted prices in active markets.

Our financial instruments are stated at amounts that equal, or approximate, fair value. When we estimate fair value, we utilize market data or assumptions that we believe market participants would use in pricing the financial instrument, including assumptions about risk and inputs to the valuation technique. We use valuation techniques, primarily the income and market approach, which maximizes the use of observable inputs and minimize the use of unobservable inputs for recurring fair value measurements.

Mutual funds: Valued at the quoted net asset value (NAV) of shares held.

*U.S. agency and treasury securities:* Fair value measured at the closing price reported on the active market on which the individual securities are traded.

The following table shows the adjusted cost, gross unrealized gains, gross unrealized losses, and fair value of our financial assets as of December 31, 2021 and 2020 (in thousands):

	December 31, 2021											
	A	djusted Cost	U	Unrealized Unrealized Fair and		Cash nd Cash Juivalents	]	Investments Available for Sale				
Cash	\$	35,428	\$		\$		\$	35,428	\$	35,428	\$	_
Level 1:												
Mutual funds		106,590		_		_		106,590		106,590		_
U.S. agency securities		16,658		_		(26)		16,632		_		16,632
U.S. treasury securities		10,646		<u> </u>		(24)		10,622		<u> </u>		10,622
		133,894		_		(50)		133,844		106,590		27,254
Total	\$	169,322	\$		\$	(50)	\$	169,272	\$	142,018	\$	27,254

	December 51, 2020											
	Adjusted Cost		U	Unrealized U		Unrealized Losses		Fair Value	Cash and Cash Equivalents		]	Investments Available for Sale
Cash	\$	121,785	\$		\$		\$	121,785	\$	121,785	\$	_
Level 1:												
Mutual funds		70,996		_		_		70,996		70,996		_
U.S. agency securities		13,767		2		_		13,769		127		13,642
U.S. treasury securities		14,707				(1)		14,706				14,706
		99,470		2		(1)		99,471		71,123		28,348
Total	\$	221,255	\$	2	\$	(1)	\$	221,256	\$	192,908	\$	28,348

December 31, 2020

The maturities of our investments generally range from within one to two years. Actual maturities could differ from contractual maturities due to call or prepayment provisions.

#### Note 12 – Litigation (all dollar amounts in this section are expressed in thousands except for rates per device)

We have several intellectual property infringement lawsuits pending in the United States Court of Appeals for the Federal Circuit ("USCAFC").

#### VirnetX Inc. v. Apple, Inc. (Case 6:12-CV-00855-LED) ("Apple II")

This case began on November 6, 2012, when we had filed a complaint against Apple in United States District Court ("USDC") in which we alleged that Apple infringed on certain of our patents, (U.S. Patent Nos. 6,502,135, 7,418,504, 7,921,211 and 7,490,151). We sought damages and injunctive relief. The accused products include the iPhone 5, iPod Touch 5th Generation, iPad 4th Generation, iPad mini, and the latest Macintosh computers. Post-trial motions hearing was held on July 18, 2018. On August 31, 2018, the USDC entered a Final Judgment and issued its Memorandum Opinion and Order regarding post-trial motions, affirming the jury's verdict of \$502,600 and granting VirnetX motions for supplemental damages, a sunset royalty, and the royalty rate of \$1.20 per infringing iPhone, iPad and Mac products, pre-judgment and post-judgment interest and costs. Apple filed a notice of appeal with the USCAFC in the Apple II case.

On October 9, 2018, USCAFC docketed the appeal as Case No. 19-1050 - VirnetX Inc. v. Apple Inc. On January 24, 2019 Apple filed its opening brief. We filed our response brief on March 1, 2019. Apple filed its reply brief on April 5, 2019. The oral arguments were heard on October 4, 2019. On November 22, 2019, the USCAFC issued an opinion affirming the district court's findings that Apple is precluded from making certain invalidity arguments and that Apple infringed the '135 and '151 patents; reversing the USDC's finding that Apple infringed the '504 and '211 patents; and remanding the case for proceedings on damages. Apple sought panel and en banc rehearing, which the USCAFC denied on February 10, 2020.

On February 22, 2020, the USDC issued a scheduling order for the parties to brief the court about the need for a new trial for recalculating the damages. We filed our motion for entry of judgment on February 28, 2020. The arguments on this matter were heard on April 14, 2020. In its order, unsealed on May 1, 2020, the USDC denied VirnetX's motion for entry of a new judgment based on the prior jury verdict and ordered a new jury trial on damages. On August 10, 2020, the USDC granted Apple's motion for continuance and reset the date to October 26, 2020. On October 30, 2020, a jury returned a \$502,800 verdict in favor of VirnetX based on Apple's infringement of two network security patents: VirnetX US Patents No. 6,502,135 and No. 7,490,151. The jury verdict called for damages of \$0.84 per accused device since the 2013 launch of Apple's iOS 7 operating system and represents 598,629,580 infringing units from US sales only. On January 15, 2021, the district court denied Apple's motion for judgment as a matter of law, and on February 4, 2021, Apple filed a notice of appeal to the USCAFC.

On February 22, 2021, USCAFC docketed the appeal as Case No. 19-1672. Apple's opening brief was filed on June 2, 2021. VirnetX filed its responsive brief on July 26, 2021. Apple filed its reply brief on September 13, 2021. The briefing is complete, and we are awaiting the court order with the schedule for oral arguments in this matter.

# VirnetX Inc. v. Mangrove Partners Master Fund, Ltd., Apple Inc. (USCAFC Case 20-2271) and VirnetX Inc. v. Mangrove Partners Master Fund, Ltd., Apple Inc., and Black Swamp, LLC (USCAFC Case 20-2272)

On September 15, 2020, we filed with the USCAFC an appeal of the invalidity findings by the Patent Trial and Appeal Board ("PTAB") in inter-partes review proceedings IPR2015-01046 and IPR2016-00062 involving our U.S. Patent No. 6,502,135, and an appeal of the invalidity findings by the PTAB in inter partes review proceedings IPR2015-1047, IPR2016-00063, and IPR2016-00167 involving our U.S. Patent No. 7,490,151. On September 25, 2020, the USCAFC issued an order consolidating the two appeals. On December 15, 2020, we filed a motion to vacate the PTAB decisions below and to remand these appeals to the PTAB. On March 16, 2021, the USCAFC denied the motion without prejudice to us raising the challenges made in the motion in our opening brief. Our opening brief was filed on June 7, 2021.

On June 23, 2021, the USCAFC entered an order directing us (and parties in other appeals that raised Appointments Clause challenges) to file a brief explaining how they believe their cases should proceed in light of the Supreme Court's decision in United States v. Arthrex, Inc., 141 S. Ct. 1970 (2021). On July 7, 2021, we filed a brief in response to the court's order. Other parties, including the U.S. Patent and Trademark Office ("PTO") filed their responses on July 21, 2021. On August 19, 2021, USCAFC issued an order remanding these appeals for the limited purpose of allowing VirnetX the opportunity to request rehearing of the PTAB's final written decisions by the Director of the USPTO. The USCAFC retained jurisdiction over the appeals in the meantime. On September 20, 2021, we filed our requests for Director rehearing with the PTO. On October 29, 2021, our requests for Director rehearing were denied. We subsequently filed an amended opening brief to the USCAFC on December 10, 2021, the other parties filed response briefs on February 2, 2022, and we filed a reply brief on February 22, 2022. All the briefings have been completed. We are awaiting the court order with the schedule for oral arguments in this matter.

#### VirnetX Inc. v. Hirshfeld (USCAFC Case 17-2593, -2594)

On September 22, 2017, we filed with the USCAFC an appeal of the invalidity findings by the PTAB in inter-partes review proceeding IPR2016-00693 involving our U.S. Patent No. 7,418,504, and an appeal of the invalidity findings by the PTAB in inter partes review proceeding IPR2016-00957 involving our U.S. Patent No. 7,921,211. On September 16, 2021, USCAFC issued an order remanding these appeals for the limited purpose of allowing VirnetX the opportunity to request rehearing of the PTAB's final written decisions by the Director of the PTO. The USCAFC retained jurisdiction over the appeals in the meantime. On October 18, 2021, we filed our requests for Director rehearing with the PTO. On January 7, 2022, our requests for Director rehearing were denied. On January 21, 2022, we informed the USCAFC about the denial of Director rehearing and requested that the court dismiss the appeal involving IPR2016-00957 as moot and vacate the PTAB's underlying decision. On February 15, 2022, the USCAFC directed the PTO to respond to our request. The PTO's response is due on March 8, 2022.

# VirnetX Inc. v. Cisco Systems, Inc. (USCAFC Case 19-1671)

On March 18, 2019, we filed with the USCAFC an appeal of the invalidity findings by the PTAB in inter-partes reexamination proceeding 95/001,679 involving our U.S. Patent No. 6,502,135. On October 5, 2021, USCAFC issued an order remanding these appeals for the limited purpose of allowing VirnetX the opportunity to request rehearing of the PTAB's final written decisions by the Director of the PTO. The USCAFC retained jurisdiction over the appeals in the meantime. Our request for Director rehearing with the PTO was filed on November 5, 2021. On January 10, 2022, our request for Director rehearing was denied. We informed the USCAFC about the denial of Director rehearing and are awaiting the court order with a schedule for briefings in this matter.

#### McKool Smith P.C. v. VirnetX, Inc., AAA Case No. 01-20-0003-7975

On March 23, 2020, the law firm of McKool Smith, P.C. ("McKool") filed a Demand for Arbitration against VirnetX, Inc. with the American Arbitration Association ("AAA"). In its demand, McKool claimed that a retention agreement it entered into in 2010 with VirnetX entitled it to a contingency fee arising from the recent 2020 payment made in the Apple I case. McKool claimed it was owed approximately \$36,300 (or 8% of the Apple I payment). We filed a general response with the AAA denying McKool's claim and contested the matter vigorously. An evidentiary hearing was held on the matter during the week of February 22, 2021 and the parties submitted additional briefings. On April 19, 2021, the arbitrator awarded McKool \$36,323 in damages, plus prejudgment interest in the amount of 5% simple interest from March 23, 2020 to April 18, 2021, and post-judgment interest in the amount of 5%, compounded annually, until payment of the award. We accrued the resulting \$38,284 as of March 31, 2021 and paid that amount to McKool on April 20, 2021. **This matter is now closed.** 

#### **Other Legal Matters**

One or more potential intellectual property infringement claims may also be available to us against certain other companies who have the resources to defend against any such claims. Although we believe these potential claims are likely valid, commencing a lawsuit can be expensive and time-consuming, and there is no assurance that we could prevail on such potential claims if we made them. In addition, bringing a lawsuit may lead to potential counterclaims which may distract our management and our other resources, including capital resources, from efforts to successfully commercialize our products.

Currently, we are not a party to any other pending legal proceedings and are not aware of any proceeding threatened or contemplated against us.

#### Note 13 - Leases

We lease office space under an operating lease which expires on October 31, 2023. At December 31, 2021, the underlying ROU asset and lease liability totaled \$98. At December 31, 2020, the underlying ROU asset and lease liability totaled \$44. Lease expense totaled \$56 in 2021, 2020 and 2019.

We also lease a facility for corporate promotional and marketing purposes which was prepaid at inception and originally expired in 2024. In September 2020, the lease was extended for one year to 2025, due to COVID use-restrictions. No other terms of the original agreement were affected and there was no impact on cash flow. At December 31, 2021 and 2020, the ROU asset totaled \$948 and \$1,248, respectively; lease expense totaled \$300, \$356 and \$385, during 2021, 2020 and 2019, respectively.

#### REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Board of Directors and Stockholders of VirnetX Holding Corporation

#### **Opinion on Internal Control over Financial Reporting**

We have audited VirnetX Holding Corporation's (the "Company's") internal control over financial reporting as of December 31, 2021, based on criteria established in *Internal Control—Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). In our opinion, because of the effect of the material weakness identified below on the achievement of the objectives of the control criteria, the Company has not maintained effective internal control over financial reporting as of December 31, 2021, based on criteria established in *Internal Control—Integrated Framework (2013)* issued by COSO ("COSO Framework").

In our report dated March 16, 2022, we expressed an unqualified opinion that the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2021, based on the criteria established by the COSO Framework. Management has subsequently identified a deficiency in controls related to the effectiveness of supervisory review of tax professionals to provide the necessary assurance that transactions affecting the accounting for infrequent transactions affecting deferred taxes, and has further concluded that the deficiency represented a material weakness as of December 31, 2021. As a result, management has revised its assessment, as presented in the accompanying Management's Report on Internal Control over Financial reporting; to conclude that the Company's internal control over financial reporting was not effective as of December 31, 2021. Accordingly, our present opinion on the effectiveness of December 31, 2021's internal control over financial reporting as of December 31, 2021, as expressed herein, is different from that expressed in our previous report.

A material weakness is a deficiency, or a combination of deficiencies, in internal control over financial reporting, such that there is a reasonable possibility that a material misstatement of the company's annual or interim financial statements will not be prevented or detected on a timely basis. The following material weakness has been identified and included in management's assessment: Management identified a material weakness in its internal control over financial reporting related to the effectiveness of its supervisory review of tax professionals to provide the necessary assurance that transactions affecting the accounting for infrequent transactions affecting deferred taxes.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated balance sheets as of December 31, 2021 and 2020, and the related consolidated statements of operations, comprehensive income (loss), stockholders' equity, and cash flows for each of the years in the three-year period ended December 31, 2021 and the related notes of the Company. The material weakness was considered in determining the nature, timing, and extent of audit tests applied in our audit of the 2021 consolidated financial statements, and this report does not affect our report dated March 16, 2022, except for the error correction discussed in Note 2, as to which the date is May 13, 2022, which expressed an unqualified opinion on those financial statements.

#### **Basis for Opinion**

The Company's management is responsible for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Management's Report on Internal Control over Financial Reporting. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audit also included performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

# **Definition and Limitations of Internal Control over Financial Reporting**

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Farber Hass Hurley LLP

Chatsworth, California

March 16, 2022 (May 13, 2022 as to the effects of the material weakness described in "Management's Report on Internal Control over Financial Reporting")

#### Index

#### Item 9A. Controls and Procedures

#### **Evaluation of Disclosure Controls and Procedures**

Under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer, we conducted an evaluation of the effectiveness of the design and operation of our disclosure controls and procedures, as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934, as amended, December 31, 2021.

The purpose of this evaluation was to determine whether as of December 31, 2021 our disclosure controls and procedures were effective to provide reasonable assurance that the information we are required to disclose in our filings with the SEC, (i) is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms and (ii) accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, as appropriate to allow timely decisions regarding required disclosure.

At the time of the filing of the Original Form 10-K, our Chief Executive Officer and Chief Financial Officer had concluded that as of December 31, 2021, our disclosure controls and procedures were effective.

Subsequent to that evaluation, our Chief Executive Officer and Chief Financial Officer concluded that, as of December 31, 2021, our disclosure controls and procedures were not effective, due solely to the material weakness in our internal control over financial reporting described below in "Management's Report on Internal Control Over Financial Reporting". In light of this material weakness, we performed additional analysis as deemed necessary to ensure that our financial statements were prepared in accordance with U.S. generally accepted principles. Accordingly, management believes that the financial statements included in this Annual Report on Form 10-K/A present fairly in all material responds our financial position, results of operations and cash flows for the period presented.

#### **Changes in Internal Control Over Financial Reporting**

Other than those items noted herein, there were no changes in our internal controls over financial reporting (as such term is defined in rules 13a-15(f) under the Securities Exchange Act of 1934, as amended) during the fiscal year ended December 31, 2021 that have materially affected, or are reasonably likely to materially affect, our internal controls over financial reporting.

#### Management's Report on Internal Control Over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting for the Company. Internal control over financial reporting is a process to provide reasonable assurance regarding the reliability of our financial reporting for external purposes in accordance with accounting principles generally accepted in the United States of America. Internal control over financial reporting includes maintaining records that in reasonable detail accurately and fairly reflect our transactions; providing reasonable assurance that transactions are recorded as necessary for preparation of our financial statements; providing reasonable assurance that receipts and expenditures of Company assets are made in accordance with management authorization; and providing reasonable assurance that unauthorized acquisition, use or disposition of Company assets that could have a material effect on our financial statements would be prevented or detected on a timely basis. Because of its inherent limitations, internal control over financial reporting is not intended to provide absolute assurance that a misstatement of our financial statements would be prevented or detected.

Management conducted an evaluation of the effectiveness of our internal control over financial reporting based on the framework in Internal Control – Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission. A material weakness is a deficiency, or a combination of deficiencies, in internal control over financial reporting, such that there is a reasonable possibility that a material misstatement of our annual or interim consolidated financial statements will not be prevented or detected on a timely basis.

In Management's Report on Internal Control over Financial Reporting included in the Original Form 10-K, our management previously concluded that we maintained effective internal control over financial reporting as of December 31, 2021. Management subsequently concluded that the material weakness existed as of December 31, 2021. As discussed in the Explanatory Note to this Annual Report on Form 10-K/A and in Note 2, of the Notes to Consolidated Financial Statements in Item 8, the Company determined that there had been an overstatement of its deferred tax assets. The error related to the carrying balance of our deferred tax asset that included the fair value of NSOs expensed for book purposes but the impact of that expense is deferred for income tax purposes. In connection with accounting for NSOs, the Company expenses the fair value of NSOs granted over the vesting period of the NSOs. For income tax purposes, the tax impact of that expense is deferred as part of our deferred tax asset, until the NSO holder converts the NSO to stock, at which time the deferred tax asset is reduced and tax expense is recognized. If an NSO is never exercised, and then expires in accordance with the contract, any amounts included in our deferred tax asset are written off and income tax expense is recognized. As of December 31, 2021, the Company incorrectly included \$3,328 in deferred tax assets related to expired NSOs, which should have reduced the income tax benefit when the NSOs expired.

In reviewing our controls over accounting for infrequent transactions affecting deferred taxes, management identified a deficiency in the effectiveness of a control intended to ensure appropriate accounting for infrequent transactions affecting our deferred tax assets. As a result, management concluded we had inadequate supervisory review of tax professionals to provide the necessary assurance that transactions affecting our deferred tax calculation, specifically that unexercised NSOs would be monitored for expiration and evaluation of the impact of expired NSOs on the accounting and reporting of deferred tax assets. The control deficiency resulted in a material misstatement of our account balances and as such, our management concluded that the deficiency constitutes a material weakness in our internal control over financial reporting.

As a result, we determined that a material misstatement of the consolidated financial statements had occurred which required a restatement of the 2021 consolidated financial statements included in the Original Form 10-K. Accordingly, management has restated its report on internal control over financial reporting.

The Company acknowledges that its management is responsible for establishing and maintaining adequate internal control over financial reporting and assessing the effectiveness of its internal controls. The Company is committed to maintaining a strong internal control environment and implementing measures to ensure that the control deficiencies identified above are remediated as soon as possible. The Company will consider the material weakness remediated after the applicable controls operate for a sufficient period of time, and management has concluded, through testing, that the controls are operating effectively

Farber Hass Hurley LLP has audited our internal control over financial reporting as of December 31, 2021; their report is included elsewhere herein.

#### **Remediation Plan**

Management has begun implementing a remediation plan to address the control deficiency that led to the material weakness. The remediation plan includes implementing specific review procedures, including the involvement of external tax experts in the supervisory review of tax accounting designed to enhance our income tax control, and strengthening our income tax control with technical training.

#### **PART IV**

#### Item 15. Exhibits and Financial Statement Schedules

- (a) The following documents are filed as part of this Annual Report on Form 10-K
  - (1) Financial Statements: See the Index to Consolidated Financial Statements under Item 8 of this Annual Report on Form 10-K.
  - (2) *Financial Statement Schedule:* Financial statement schedules are omitted because they are not applicable, or the required information is shown in the financial statements or notes thereto. All other schedules are omitted because of the absence of conditions under which they are required or because the required information is given in the financial statements or the notes thereto.
  - (3) *Exhibits*: The documents listed in the Exhibit Index of this Annual Report on Form 10-K are incorporated by reference or are filed with this Annual Report on Form 10-K, in each case as indicated therein (numbered in accordance with Item 601 of Regulation S-K).

#### **EXHIBIT INDEX**

xhibit		Incorporated by reference herein							
umber	Description	Form	Exhibit No.	Filing Date	File No.				
3.1	Certificate of Incorporation of the Company.	8-K	3.1	11/01/2007	000-26895				
3.2	Bylaws of the Company.	8-K	3.2	11/01/2007	000-26895				
4.1	Form of Warrant Agency Agreement by and between the Company	S-1/A	4.1	01/16/2009	333-153645				
	and Corporate Stock Transfer, Inc. as Warrant Agent.								
4.2	Form of Series I Warrant.	8-K	4.1	09/03/2009	001-33852				
4.3	Specimen Common Stock Certificate.	S-3	4.1	07/30/2018	333-226413				
4.4	Form of Senior Indenture.	S-3	4.2	07/30/2018	333-226413				
4.5	Form of Subordinated Indenture.	S-3	4.4	07/30/2018	333-226413				
4.6	Description of Capital Stock.	10-K	4.6	03/16/2020	001-33852				
10.1	Form of Indemnification Agreement.	10-K	10.1	03/18/2019	001-33852				
10.2*	2007 Stock Plan, as amended.	10-Q	10.2	05/10/2012	001-33852				
10.3*	Amended Form of Stock Option Agreement – 2007 Stock Plan.	10-Q	4.5	05/10/2011	001-33852				
10.4*	Form of Restricted Stock Unit Award Agreement – 2007 Stock Plan.	10-Q	10.3	05/10/2012	001-33852				
10.5*	2013 Equity Incentive Plan, as amended.	DEF 14A	Appendix A	04/13/2021	001-33852				
10.6*	Form of Stock Option Agreement – 2013 Equity Incentive Plan.	10-K	10.6	03/02/2015	001-33852				
10.7*	Form of Restricted Stock Unit Agreement – 2013 Equity Incentive	10-K	10.7	03/02/2015	001-33852				
10.7	<u>Plan</u> .	10-10	10.7	03/02/2013	001-33032				
10.8	Voting Agreement among the Company and certain of its	10-K	10.11	03/31/2008	001-33852				
	stockholders, dated as of December 12, 2007.								
10.9	Securities Purchase Agreement, dated as of September 2, 2009, by	8-K	10.1	09/03/2009	001-33852				
	and between the Company and the Purchasers (as defined therein).								
10.10	Form of Registration Rights Agreement by and between the	8-K	10.2	09/03/2009	001-33852				
	Company and the Purchasers (as defined therein).								
10.11	Form of Underwriting Agreement between VirnetX Holding	S-1/A	1.1	01/16/2009	333-153645				
	Corporation and Gilford Securities Incorporated.								
10.12	Patent License and Assignment Agreement by and between the	8-K	10.4	07/12/2007	000-26895				
	Company and Leidos, Inc. (formerly Science Applications								
	International Corporation) dated as of August 12, 2005.								
10.13**	Amendment No. 1 to Patent License and Assignment Agreement by	8-K	10.6	07/12/2007	000-26895				
	and between the Company and Leidos, Inc. dated as of November 2,								
	2006.								
10.14	Amendment No. 2 to Patent License and Assignment Agreement by	8-K	10.1	03/18/2008	001-33852				
10.11	and between VirnetX, Inc. and Leidos, Inc. dated as of March 12,	0 10	10.1	05/16/2000	001 00002				
	2008.								
10.15	Security Agreement by and between the Company and Leidos, Inc.	8-K	10.5	07/12/2007	000-26895				
10.15	dated as of August 12, 2005.	0-10	10.5	07/12/2007	000-2005				
10.16	Assignment Agreement between the Company and Leidos, Inc.	8-K	10.7	07/12/2007	000-26895				
10.10	dated as of December 21, 2006.	0-1	10.7	0//12/200/	000-20093				
10.17	Professional Services Agreement by and between the Company and	8-K	10.8	07/12/2007	000-26895				
10.17	Leidos, Inc. dated as of August 12, 2005.	0-IX	10.0	0//12/200/	000-20093				
10.18**	Settlement and License Agreement, by and between Microsoft	10.0/4	10.1	01/21/2011	001 22053				
10.18		10-Q/A	10.1	01/31/2011	001-33852				
10 1044	Corporation and VirnetX, Inc., dated May 14, 2010.	40.77	10.00	02/02/2015	004 22055				
10.19**	Amended Settlement and License Agreement, by and between	10-K	10.23	03/02/2015	001-33852				
4.0.00	Microsoft Corporation and VirnetX, Inc., dated December 17, 2014.	10.0	10.1	44 /00 /004 =	004 0005				
10.20**	Amended and Restated Revenue Sharing Agreement by and	10-Q	10.1	11/09/2017	001-33852				
	between VirnetX Holding Corporation and Public Intelligence								
	Technology Associates, dated October 18, 2017.								
10.21	Amended and Restated Gabriel License Agreement by and between	10-Q	10.2	11/09/2017	001-33852				
	<u>VirnetX Holding Corporation and Public Intelligence Technology</u>								
	Associates, dated October 18, 2017.								
10.22	Sales Agreement, dated August 31, 2018, by and between VirnetX	8-K	10.1	08/31/2018	001-33852				
	Holding Corporation and Cowen and Company, LLC.								
10.23*	Hire Letter by and between Katherine Allanson and the Company,	10-Q	10.1	11/08/2021	001-33852				
	dated as of September 1, 2021.								

<u>23.1</u>	Consent of Farber Hass Hurley LLP, Independent Registered Public Accounting Firm.				
<u>24.1</u>	Power of Attorney.	10-K	24.1	3/16/2022	001-33852
<u>31.1</u>	Chief Executive Officer Certification pursuant to Rule 13a-14(a) of				
	the Securities Exchange Act.				
<u>31.2</u>	Chief Financial Officer Certification pursuant to Rule 13a-14(a) of				
	the Securities Exchange Act.				
<u>32.1†</u>	Chief Executive Officer Certification pursuant to 18 U.S.C. Section				
	1350 as adopted pursuant to Section 906 of the Sarbanes-Oxley Act				
	of 2002				
<u>32.2†</u>	Chief Financial Officer Certification pursuant to 18 U.S.C. Section				
	1350 as adopted pursuant to Section 906 of the Sarbanes-Oxley Act				
	of 2002.				
101.INS	XBRL Instance Document				
101.SCH	XBRL Taxonomy Extension Schema Document				
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document				
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document				
101.LAB	XBRL Taxonomy Extension Label Linkbase Document				
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document				
104	Cover Page Interactive Data File (formatted as inline XBRL and				
	contained in Exhibit 101)				

<sup>\*</sup> Indicates management contract or compensatory plan.

<sup>\*\*</sup> Confidential treatment has been granted by the SEC as to certain portions of this exhibit.

<sup>\*\*\*</sup> Portions of this exhibit have been omitted pending a determination by the SEC as to whether these portions should be granted confidential treatment.

The certifications attached as Exhibit 32.1 and 32.2 that accompany this Report are not deemed filed with the Securities and Exchange Commission and are not to be incorporated by reference into any filing of VirnetX Holding Corporation under the Securities Act or the Exchange Act, whether before or after the date of this Report, irrespective of any general incorporation language contained in such filing.

# **SIGNATURES**

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this Annual Report on Form 10-K to be signed on its behalf by the undersigned, thereunto duly authorized.

# **VirnetX Holding Corporation**

By: /s/ Kendall Larsen

Name: Kendall Larsen

Title: Chief Executive Officer and President

**EXHIBIT 23.1** 

#### CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We hereby consent to the incorporation by reference in the Registration Statements on Form S-8 (Nos. 333-149883, 333-196064, 333-218467, and 333-258131) of our reports dated March 16, 2022, relating to the consolidated financial statements of VirnetX Holding Corporation (the "Company"), and the effectiveness of the Company's internal control over financial reporting, appearing in this Annual Report on Form 10-K/A of the Company for the year ended December 31, 2021.

/s/ Farber Hass Hurley LLP

Chatsworth, California May 13, 2022

#### **EXHIBIT 31.1**

#### **CERTIFICATIONS**

#### I, Kendall Larsen, certify that:

- 1. I have reviewed this Annual Report on Form 10-K/A of VirnetX Holding Corporation for the fiscal year ended December 31, 2021;
- Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

/s/ Kendall Larsen

Kendall Larsen
President and Chief Executive Officer
(Principal Executive Officer)

#### **CERTIFICATIONS**

#### I, Katherine Allanson, certify that:

- 1. I have reviewed this Annual Report on Form 10-K/A of VirnetX Holding Corporation for the fiscal year ended December 31, 2021;
- Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

/s/ Katherine Allanson

Katherine Allanson Chief Financial Officer (Principal Accounting and Financial Officer)

**EXHIBIT 32.1** 

# CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Annual Report of VirnetX Holding Corporation (the "Company") on Form 10-K/A for the fiscal year ended December 31, 2021 as filed with the Securities and Exchange Commission on March 16, 2022 (the "Report"), I, Kendall Larsen, President and Chief Executive Officer of the Company, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to my knowledge:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and result of operations of the Company.

/s/ Kendall Larsen
Kendall Larsen
President and Chief Executive Officer

(Principal Executive Officer)

**EXHIBIT 32.2** 

# CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Annual Report of VirnetX Holding Corporation (the "Company") on Form 10-K/A for the fiscal year ended December 31, 2021 as filed with the Securities and Exchange Commission on March 16, 2022 (the "Report"), I, Katherine Allanson, Chief Financial Officer of the Company, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to my knowledge:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and result of operations of the Company.

/s/ Katherine Allanson
Katherine Allanson
Chief Financial Officer
(Principal Accounting and Financial Officer)