
**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

Form 10-Q

(Mark One)

☒ **QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**

For the quarterly period ended September 30, 2017

OR

☐ **TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**

Commission file number: 001-37918

iRhythm Technologies, Inc.

(Exact Name of Registrant as Specified in its Charter)

Delaware
(State or Other Jurisdiction of
Incorporation or Organization)

**650 Townsend Street, Suite 500,
San Francisco , California**
(Address of Principal Executive Offices)

20-8149544
(I.R.S. Employer
Identification No.)

94103
(Zip Code)

(415) 632-5700

(Registrant's Telephone Number, Including Area Code)

Indicate by check mark whether the registrant: (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes ☒ No ☐

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes ☒ No ☐

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

Large accelerated filer ☐
Non-accelerated filer ☒ (Do not check if a smaller reporting company)
Emerging growth company ☒

Accelerated filer ☐
Smaller reporting company ☐

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

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

As of October 31, 2017, the number of outstanding shares of the registrant's common stock, par value \$0.001 per share, was 22,981,467.

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SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This Quarterly Report on Form 10-Q contains forward-looking statements concerning our business, operations and financial performance and condition, as well as our plans, objectives and expectations for our business, operations and financial performance and condition. Any statements contained herein that are not statements of historical facts may be deemed to be forward-looking statements. In some cases, you can identify forward-looking statements by terminology such as “anticipate,” “assume,” “believe,” “contemplate,” “continue,” “could,” “due,” “estimate,” “expect,” “goal,” “intend,” “may,” “objective,” “plan,” “predict,” “potential,” “positioned,” “seek,” “should,” “target,” “will,” “would” and other similar expressions that are predictions of or indicate future events and future trends, or the negative of these terms or other comparable terminology. These forward-looking statements include, but are not limited to, statements about:

- plans to conduct further clinical studies
- our plans to modify our current products, or develop new products, to address additional indications
- the expected growth of our business and our organization
- our expectations regarding government and third party payor coverage and reimbursement
- our expectations regarding the size of our sales organization and expansion of our sales and marketing efforts in international geographies
- our expectations regarding revenue, cost of revenue, cost of service per device, operating expenses, including research and development expense, sales and marketing expense and general and administrative expenses
- our ability to retain and recruit key personnel, including the continued development of a sales and marketing infrastructure
- our ability to obtain and maintain intellectual property protection for our products
- our estimates of our expenses, ongoing losses, future revenue, capital requirements and our needs for, or ability to obtain, additional financing
- our expectations regarding the time during which we will be an emerging growth company under the JOBS Act
- our ability to identify and develop new and planned products and acquire new products
- our financial performance
- developments and projections relating to our competitors or our industry

We believe that it is important to communicate our future expectations to our investors. However, there may be events in the future that we are not able to accurately predict or control and that may cause our actual results to differ materially from the expectations we describe in our forward-looking statements. These forward-looking statements are based on management’s current expectations, estimates, forecasts and projections about our business and the industry in which we operate and management’s beliefs and assumptions and are not guarantees of future performance or development and involve known and unknown risks, uncertainties and other factors that are in some cases beyond our control. As a result, any or all of our forward-looking statements in this Quarterly Report on Form 10-Q may turn out to be inaccurate. Factors that may cause actual results to differ materially from current expectations include, among other things, those listed under “Risk Factors” and elsewhere in this Quarterly Report on Form 10-Q. Potential investors are urged to consider these factors carefully in evaluating the forward-looking statements. These forward-looking statements speak only as of the date of this Quarterly Report on Form 10-Q. We assume no obligation to update or revise these forward-looking statements for any reason, even if new information becomes available in the future.

You should not rely upon forward-looking statements as predictions of future events. Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee that the future results, levels of activity, performance or events and circumstances reflected in the forward-looking statements will be achieved or occur. We undertake no obligation to update publicly any forward-looking statements for any reason after the date of this Quarterly Report on Form 10-Q to conform these statements to actual results or to changes in our expectations.

You should read this Quarterly Report on Form 10-Q and the documents that we reference in this Quarterly Report on Form 10-Q and have filed with the SEC as exhibits to the Quarterly Report on Form 10-Q with the understanding that our actual future results, levels of activity, performance and events and circumstances may be materially different from what we expect.

PART I. FINANCIAL INFORMATION

ITEM 1. FINANCIAL STATEMENTS

IRHYTHM TECHNOLOGIES, INC.
Condensed Consolidated Balance Sheets
(Unaudited)
(In thousands, except share and per share data)

	September 30, 2017	December 31, 2016
Assets		
Current assets:		
Cash and cash equivalents	\$ 20,429	\$ 51,643
Investments, short-term	87,017	54,407
Accounts receivable, net	12,039	9,406
Inventory	1,314	1,390
Prepaid expenses and other current assets	1,989	1,671
Restricted cash	—	91
Total current assets	122,788	118,608
Investments, long-term	—	10,981
Property and equipment, net	6,207	4,653
Goodwill	862	862
Other assets	3,798	3,052
Total assets	\$ 133,655	\$ 138,156
Liabilities and Stockholders' Equity		
Current liabilities:		
Accounts payable	\$ 2,076	\$ 2,103
Accrued liabilities	11,436	10,165
Deferred revenue	904	947
Accrued interest, current portion	149	—
Debt, current portion	1,479	—
Total current liabilities	16,044	13,215
Debt	32,053	32,227
Deferred rent, noncurrent portion	169	26
Accrued interest, net of current portion	—	126
Total liabilities	48,266	45,594
Commitments and contingencies (Note 7)		
Stockholders' equity:		
Preferred stock, \$0.001 par value – 5,000,000 authorized at September 30, 2017 and December 31, 2016, respectively; and none issued and outstanding at September 30, 2017 and December 31, 2016, respectively	—	—
Common stock, \$0.001 par value – 100,000,000 shares authorized at September 30, 2017 and December 31, 2016, respectively; 22,978,954 and 22,139,346 shares issued and outstanding at September 30, 2017 and December 31, 2016, respectively	28	22
Additional paid-in capital	230,831	219,718
Accumulated other comprehensive loss	(30)	(9)
Accumulated deficit	(145,440)	(127,169)
Total stockholders' equity	85,389	92,562
Total liabilities and stockholders' equity	\$ 133,655	\$ 138,156

The accompanying notes are an integral part of these condensed consolidated financial statements.

IRHYTHM TECHNOLOGIES, INC.
Condensed Consolidated Statements of Operations
(Unaudited)
(In thousands, except share and per share data)

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2017	2016	2017	2016
Revenue	\$ 25,035	\$ 16,780	\$ 70,327	\$ 45,368
Cost of revenue	6,920	5,282	20,002	15,097
Gross profit	18,115	11,498	50,325	30,271
Operating expenses:				
Research and development	3,790	1,635	9,187	4,847
Selling, general and administrative	20,308	12,529	57,787	36,658
Total operating expenses	24,098	14,164	66,974	41,505
Loss from operations	(5,983)	(2,666)	(16,649)	(11,234)
Interest expense	(862)	(807)	(2,522)	(2,388)
Other income (expense), net	321	(602)	900	(1,015)
Net loss	\$ (6,524)	\$ (4,075)	\$ (18,271)	\$ (14,637)
Net loss per common share, basic and diluted	\$ (0.29)	\$ (2.80)	\$ (0.81)	\$ (10.20)
Weighted-average shares used to compute net loss per common share, basic and diluted	22,811,907	1,454,307	22,446,399	1,434,583

The accompanying notes are an integral part of these condensed consolidated financial statements.

IRHYTHM TECHNOLOGIES, INC.
Condensed Consolidated Statements of Comprehensive Loss
(Unaudited)
(In thousands)

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2017	2016	2017	2016
Net Loss	\$ (6,524)	\$ (4,075)	\$ (18,271)	\$ (14,637)
Other comprehensive loss:				
Change in unrealized loss on available-for-sale securities	21	—	(19)	—
Comprehensive loss	<u>\$ (6,503)</u>	<u>\$ (4,075)</u>	<u>\$ (18,290)</u>	<u>\$ (14,637)</u>

The accompanying notes are an integral part of these condensed consolidated financial statements.

IRHYTHM TECHNOLOGIES, INC.
Condensed Consolidated Statements of Cash Flows
(Unaudited)
(In thousands)

	Nine Months Ended September 30,	
	2017	2016
Cash flows from operating activities		
Net loss	\$ (18,271)	\$ (14,637)
Adjustments to reconcile net loss to net cash used in operating activities:		
Depreciation and amortization	1,103	646
Stock-based compensation	7,024	1,251
Amortization of debt discount and issuance costs	197	284
Amortization of premiums (accretion of discounts) on investments, net	(207)	—
Non-cash interest expense	1,152	1,099
Provision for bad debt and contractual allowance	5,927	3,384
Change in fair value of preferred stock warrant liabilities	—	996
Changes in operating assets and liabilities:		
Accounts receivable	(8,560)	(7,115)
Inventory	76	(527)
Prepaid expenses and other current assets	(197)	(301)
Other assets	(793)	(842)
Accounts payable	(33)	69
Accrued liabilities	1,294	(363)
Deferred revenue	(43)	344
Deferred rent	143	(1)
Net cash used in operating activities	(11,188)	(15,713)
Cash flows from investing activities		
Change in restricted cash	91	—
Purchases of property and equipment	(2,651)	(1,821)
Purchases of available-for-sale investments	(90,243)	—
Maturities of available-for-sale investments	68,682	—
Net cash used in investing activities	(24,121)	(1,821)
Cash flows from financing activities		
Net proceeds from employee stock transactions	4,095	82
Payments of deferred issuance costs	—	(1,995)
Net cash provided by (used in) financing activities	4,095	(1,913)
Net decrease in cash and cash equivalents	(31,214)	(19,447)
Cash and cash equivalents, beginning of period	51,643	25,208
Cash and cash equivalents, end of period	<u>\$ 20,429</u>	<u>\$ 5,761</u>
Supplemental disclosures of cash flow information		
Interest paid	\$ 1,152	\$ 1,213
Non-cash investing and financing activities		
Deferred offering costs included in accounts payable and accrued liabilities	\$ —	\$ 637
Property, plant and equipment costs included in accounts payable	\$ 6	\$ 152

The accompanying notes are an integral part of these condensed consolidated financial statements.

IRHYTHM TECHNOLOGIES, INC.
Notes to the Unaudited Condensed Consolidated Financial Statements

1. Organization and Description of Business

iRhythm Technologies, Inc. (the “Company”) was incorporated in the state of Delaware in September 2006. The Company is a digital healthcare company redefining the way cardiac arrhythmias are clinically diagnosed by combining wearable biosensing technology with cloud-based data analytics and machine-learning capabilities. The Company commenced commercial introduction of its products in the United States in 2009 following clearance by the U.S. Food and Drug Administration.

The Company’s headquarters are based in San Francisco, California, and the Company has manufacturing facilities in Cypress, California, and clinical centers in Lincolnshire, Illinois and Houston, Texas. In March 2016, the Company formed a wholly-owned subsidiary in the United Kingdom. The Company manages its operations as a single operating segment. Substantially all of the Company’s assets are maintained in the United States. The Company derives substantially all of its revenue from sales to customers in the United States, based upon the billing address of the customer.

2. Summary of Significant Accounting Policies

Basis of Presentation

The accompanying financial statements have been prepared in accordance with generally accepted accounting principles in the United States of America, or U.S. GAAP, and applicable rules and regulations of the Securities and Exchange Commission, or SEC, regarding interim financial reporting. As permitted under those rules, certain footnotes or other financial information that are normally required by GAAP have been condensed or omitted, and accordingly the balance sheet as of December 31, 2016 has been derived from the audited consolidated financial statements at that date but does not include all of the information required by GAAP for complete consolidated financial statements. These unaudited condensed consolidated financial statements have been prepared on the same basis as the Company’s annual consolidated financial statements and, in the opinion of management, reflect all adjustments (consisting only of normal recurring adjustments) that are necessary for the fair statement of the Company’s condensed consolidated financial information. The results of operations for the three and nine months ended September 30, 2017 are not necessarily indicative of the results to be expected for the year ending December 31, 2017 or for any other interim period or for any other future year.

The accompanying interim unaudited condensed consolidated financial statements and related financial information should be read in conjunction with the audited financial statements and the related notes thereto for the year ended December 31, 2016 included in the Company’s Form 10-K, filed with the SEC on March 31, 2017.

Principles of Consolidation

The accompanying interim unaudited condensed consolidated financial statements are consolidated for the nine months ended September 30, 2017 and 2016 and include the accounts of iRhythm Technologies, Inc. and its wholly-owned subsidiary, iRhythm Technologies Ltd., established in March 2016. The financial statements of iRhythm Technologies Ltd. use the U.S. dollar as the functional currency. For all non-functional currency balances, the remeasurement of such balances to functional currency results in a foreign exchange transaction gain or loss, which is recorded in the consolidated statements of operations.

Use of Estimates

The preparation of the condensed consolidated financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities as of the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. On an ongoing basis, management evaluates its estimates, including those related to revenue recognition, contractual allowances for revenue, allowance for doubtful accounts, the useful lives of property and equipment, the recoverability of long-lived assets including the estimated usage of the printed circuit board assemblies (“PCBAs”), the valuation of deferred tax assets, the fair value of the Company’s preferred and common stock and stock-based compensation. The Company bases these estimates on historical and anticipated results, trends, and various other assumptions that the Company believes are reasonable under the circumstances, including assumptions as to future events. Actual results may differ from those estimates.

Fair Value of Financial Instruments

The carrying amounts of certain of the Company’s financial instruments, which include cash equivalents, short-term investments, accounts receivable, accounts payable and accrued liabilities, approximate fair value due to their short maturities.

IRHYTHM TECHNOLOGIES, INC.
Notes to Unaudited Condensed Consolidated Financial Statements (Continued)

Cash Equivalents

Cash equivalents consist of short-term, highly liquid investments with original maturities of three months or less from the date of purchase.

Investments

Short-term investments consist of debt securities classified as available-for-sale and have maturities greater than 90 days, but less than 365 days from the date of acquisition. Long-term investments have maturities greater than 365 days as of the balance sheet date. All investments are carried at fair value based upon quoted market prices. Unrealized gains and losses on available-for-sale securities are excluded from earnings and are reported as a component of accumulated other comprehensive loss. The cost of available-for-sale securities sold is based on the specific-identification method. Realized gains and losses are included in earnings, and are derived for specific-identification method for determining the costs of investments sold.

Restricted Cash

Restricted cash consists of certificates of deposit held with a financial institution as security deposits for building leases and is included in short-term assets on the Company's condensed consolidated balance sheets.

Accounts Receivable, Allowance for Doubtful Accounts and Contractual Allowance

Accounts receivable consists of amounts due to the Company from institutions, government payors and third-party commercial payors as a result of the Company's normal business activities. Accounts receivable is reported on the condensed consolidated balance sheets net of an estimated allowance for doubtful accounts and contractual allowance.

The Company establishes an allowance for doubtful accounts for estimated uncollectible receivables based on its historical experience, and recognizes the provision as a component of selling, general and administrative expenses. The Company establishes a contractual allowance, which is a reduction in revenue, for estimated uncollectible amounts from Centers for Medicare & Medicaid Services ("CMS") and contracted third-party commercial payors.

The following table presents the changes in the allowance for doubtful accounts:

	September 30, 2017	December 31, 2016
Balance, beginning of period	\$ 1,792	\$ 1,125
Add: provision for doubtful accounts	1,855	1,960
Less: write-offs, net of recoveries and other adjustments	(852)	(1,293)
Balance, end of period	<u>\$ 2,795</u>	<u>\$ 1,792</u>

The following table presents the changes in the contractual allowance:

	September 30, 2017	December 31, 2016
Balance, beginning of period	\$ 2,340	\$ 338
Add: contractual allowances	4,072	2,726
Less: write-offs, net of recoveries and other adjustments	(678)	(724)
Balance, end of period	<u>\$ 5,734</u>	<u>\$ 2,340</u>

Management reviews and updates its estimates for the allowances for doubtful accounts and contractual allowance periodically to reflect its experience regarding historical collections. If management were to make different judgments or utilize different estimates in the allowances for doubtful accounts and contractual allowance, differences in the amount of reported selling, general and administrative expenses and revenue could result, respectively.

IRHYTHM TECHNOLOGIES, INC.
Notes to Unaudited Condensed Consolidated Financial Statements (Continued)

Concentrations of Risk

Credit Risk

Financial instruments that potentially subject the Company to a concentration of credit risk consist primarily of cash and cash equivalents, investments and accounts receivable. Cash, cash equivalents, and investments are deposited in financial institutions which, at times, may be in excess of federally insured limits. Cash equivalents are invested in highly rated money market funds. The Company invests in a variety of financial instruments, such as, but not limited to, United States Government securities, corporate notes, commercial paper and, by policy, limits the amount of credit exposure with any one financial institution or commercial issuer. The Company has not experienced any material losses on its deposits of cash and cash equivalents or investments.

Concentrations of credit risk with respect to accounts receivable are limited due to the large number of customers comprising the Company's customer base and their dispersion across many geographies. The Company does not require collateral. The Company records an allowance for doubtful accounts when it becomes probable that a receivable will not be collected. Government agencies, including CMS and the Veterans Administration, accounted for approximately 39%, 38%, 38% and 40% of the Company's revenue for the three and nine months ended September 30, 2017 and 2016 respectively. Accounts receivable related to government agencies accounted for 26% and 27% at September 30, 2017 and December 31, 2016, respectively.

Supply Risk

While the Company has not experienced manufacturing supply disruptions to date, the Company relies on single-source vendors for the supply of its disposable housings, instruments and other materials used to manufacture the ZIO Patch and the adhesive that binds the ZIO Patch to a patient's body. These components and materials are critical, and there could be a considerable delay in finding alternative sources of supply.

Inventory

Inventory is stated at the lower of cost or net realizable value, cost being determined on a standard cost basis for material costs and on actual cost basis for labor and overhead, which approximates actual cost on a first in, first out ("FIFO") basis, and market being determined as the lower of cost or net realizable value. The Company records write-downs of inventory that is obsolete or in excess of anticipated demand or market value based on consideration of product lifecycle stage, technology trends, product development plans and assumptions about future demand and market conditions. Actual demand may differ from forecasted demand and such differences may have a material effect on recorded inventory values. Inventory write-downs are charged to cost of revenue and establish a new cost basis for the inventory.

Property and Equipment

Property and equipment are stated at cost less accumulated depreciation and amortization. Depreciation and amortization is computed using the straight-line method over the estimated useful lives of the assets, ranging from three to five years. Leasehold improvements are amortized over the shorter of the lease term or the estimated useful lives of the assets. Maintenance and repairs are charged to expense as incurred and improvements and betterments are capitalized.

Internal-Use Software

The Company capitalizes costs related to internal-use software during the application development stage. Costs related to planning and post implementation activities are expensed as incurred. Capitalized internal-use software is amortized, and recognized as cost of revenue, on a straight-line basis over the estimated useful life, which is up to five years. The Company evaluates the useful lives of these assets on an annual basis and tests for impairment whenever events or changes in circumstances occur that could impact the recoverability of these assets. Capitalized internal-use software costs are classified as a component of property and equipment.

IRHYTHM TECHNOLOGIES, INC.
Notes to Unaudited Condensed Consolidated Financial Statements (Continued)

Goodwill

Goodwill represents the excess of the purchase price paid over the fair value of tangible and identifiable intangible net assets acquired in business combinations. Goodwill is tested for impairment on an annual basis and at any other time if events occur or circumstances indicate that the carrying amount of goodwill may not be recoverable. Such events or circumstances may include significant adverse changes in the general business climate, among other things. The impairment test is performed by determining the enterprise fair value of the Company, which is primarily based on the Company's market capitalization. If the Company's carrying value, as a one reporting unit entity, is less than its fair value, then the fair value is allocated to all of its assets and liabilities (including any unrecognized intangible assets) as if the fair value was the purchase price to acquire the Company. The excess of the fair value over the amounts assigned to the Company's assets and liabilities is the implied fair value of the goodwill. If the carrying amount of goodwill exceeds the implied fair value of that goodwill, an impairment loss is recognized in an amount equal to that excess. The Company performs its annual evaluation of goodwill during the fourth quarter of each fiscal year. The Company did not record any charges related to goodwill impairment in any of the periods presented in these condensed consolidated financial statements.

Impairment of Long-Lived Assets

The Company annually reviews long-lived assets for impairment or whenever events or changes in circumstances indicate that the carrying amount of an asset may not be recoverable. Recoverability is measured by comparison of the carrying amount to the future net cash flows which the assets are expected to generate. If such assets are considered to be impaired, the impairment to be recognized is measured as the amount by which the carrying amount of the assets exceeds the projected discounted future net cash flows arising from the asset. To date there have been no such impairments of long-lived assets.

Other Assets

Included in the other assets are PCBAs totaling \$3.5 million and \$2.8 million as of September 30, 2017 and December 31, 2016, respectively. The Company uses a PCBA in each wearable device and it is used numerous times and has a useful life beyond one year. Each time the PCBA is used in a wearable device, a portion of the cost of the PCBA is recorded as a cost of revenue. The Company has based its estimates of how many times a PCBA can be used on testing in research and development, loss rates, product obsolescence, and the amount of time it takes the device to go through the manufacturing, shipping, customer shelf and patient wear time and upload process. The Company periodically evaluates the use estimate.

Comprehensive Loss

Comprehensive loss represents all changes in stockholders' equity except those resulting from and distributions to stockholders. The Company's unrealized gains and losses on available-for-sale securities represent the only component of other comprehensive loss that are excluded from the reported net loss and that are presented in the condensed consolidated statements of comprehensive loss.

Revenue Recognition

The Company's devices, cardiac rhythm monitors, have a wear period for up to 14 days for the ZIO Service or 30 days for the ZIO Event Card. The Company's services, consisting of the delivery of reports containing analysis of data captured by the physical device to the prescribing physician, are generally billable at the start of the wear period or when reports are issued to physicians, depending on the service provided. For the ZIO Event Card, the Company recognizes revenue on a straight-line basis over the applicable wear period, as the event monitoring results are delivered to physicians. For the ZIO Service, the Company recognizes the revenue at the time that a report is delivered to a physician. For all services performed, the Company considers whether or not the following revenue recognition criteria are met: persuasive evidence of an arrangement exists and delivery has occurred or services have been rendered. For services performed for customers the Company invoices directly, additional revenue recognition criteria include that the price is fixed and determinable and collectability is reasonably assured; for customers in which the Company submits claims to third-party commercial and governmental payors for reimbursement, it recognizes revenue only when a reasonable estimate of reimbursement can be made.

IRHYTHM TECHNOLOGIES, INC.
Notes to Unaudited Condensed Consolidated Financial Statements (Continued)

The assessment of whether a reasonable estimate of reimbursement can be made requires significant judgment by management. Where management's judgment indicates a reasonable estimate of reimbursement can be made, revenue is recognized upon delivery of the patient report for the ZIO Service and straight-line for the ZIO Event Card. Some patients have out-of-pocket costs for amounts not covered by their insurance carrier, and the Company may bill the patient directly for these amounts in the form of co-payments and co-insurance in accordance with their insurance carrier and health plans. Some payors may not cover the Company's service as ordered by the prescribing physician under their reimbursement policies. In the absence of an agreement with the patient or other clearly enforceable legal right to demand payment from the patient, the related revenue is recognized upon the earlier of notification of the payor benefits allowed or when payment is received, until the Company has the ability to make a reasonable estimate. Once a reasonable estimate can be made, revenue is recognized upon delivery of the service. During 2017, the Company recognized revenue from certain non-contracted payors as a reasonable estimate was able to be made, primarily based on the consistency of historical payments.

The Company recognizes revenue related to billings for CMS and commercial payors on an accrual basis, net of contractual allowances, when a reasonable estimate of reimbursement can be made. These contractual allowances represent the difference between the list price (the billing rate) and the reimbursement rate for each payor. Upon ultimate collection from CMS and commercial payors, the amount is compared to the previous estimates and the contractual allowance is adjusted accordingly. Until a contract has been negotiated with a commercial payor, the Company's services may or may not be covered by these entities' existing reimbursement policies. In addition, patients do not enter into direct agreements with the Company that commit them to pay any portion of the cost of the service in the event that their insurance declines to reimburse the Company. In the absence of an agreement with the patient or other clearly enforceable legal right to demand payment from the patient, the related revenue is recognized upon the earlier of notification of the payor benefits allowed or when payment is received, until the Company has the ability to make a reasonable estimate. Contracted revenue recognized on an accrual basis was \$22.5 million, \$13.3 million, \$62.1 million and \$37.6 million for the three and nine months ended September 30, 2017 and 2016, respectively. Revenue related to non-contracted claims was \$2.5 million, \$3.5 million, \$8.2 million and \$7.8 million for the three and nine months ended September 30, 2017 and 2016, respectively.

Certain of the Company's customers pay the Company directly for the ZIO Service upon shipment of devices. Such advance payments are recorded as deferred revenue on the condensed consolidated balance sheets and revenue is recognized when reports are delivered to physicians.

Cost of Revenue

Cost of revenue is expensed as incurred and includes direct labor, material costs, equipment and infrastructure expenses, amortization of internal-use software, allocated overhead, and shipping and handling. Material costs include both the disposable costs of the device and amortization of the PCBAs. Each time the PCBA is used in a wearable device, a portion of the cost of the PCBA is recorded as a cost of revenue.

Research and Development

The Company's research and development costs are expensed as incurred. Research and development costs include, but are not limited to, payroll and personnel-related expenses, laboratory supplies, consulting costs and overhead charges.

Income Taxes

The Company uses the asset and liability method to account for income taxes in accordance with the authoritative guidance for income taxes. Under this method, deferred tax assets and liabilities are determined based on future tax consequences attributable to differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax bases, and tax loss and credit carryforwards. Deferred tax assets and liabilities are measured using enacted tax rates applied to taxable income in the years in which those temporary differences are expected to be recovered or settled. The effect on deferred tax assets and liabilities of a change in tax rates is recognized in income in the period that includes the enactment date. A valuation allowance is established when necessary to reduce deferred tax assets to the amount expected to be realized.

The Company recognizes the effect of income tax positions only if those positions are more likely than not of being sustained. Recognized income tax positions are measured at the largest amount that is greater than 50% likely of being realized. Changes in recognition or measurement are reflected in the period in which the change in judgment occurs. The Company records interest and penalties related to unrecognized tax benefits in income tax expense. To date, there have been no interest or penalties charged in relation to the unrecognized tax benefits.

IRHYTHM TECHNOLOGIES, INC.
Notes to Unaudited Condensed Consolidated Financial Statements (Continued)

Stock-based Compensation

The Company measures its stock-based awards made to employees based on the estimated fair values of the awards as of the grant date. The fair value of stock options are determined using the Black-Scholes option pricing model. Stock-based compensation expense is recognized over the requisite service period using the straight-line method and is based on the value of the portion of stock-based payment awards that is ultimately expected to vest. As such, the Company's stock-based compensation is reduced for the estimated forfeitures at the date of grant and revised, if necessary, in subsequent periods if actual forfeitures differ from those estimates. For restricted stock, the compensation cost for these awards is based on the closing price of the Company's common stock on the date of grant, and recognized as compensation expense on a straight-line basis over the requisite service period.

The Company recognizes compensation expense related to the Employee Stock Purchase Program ("ESPP") based on the estimated fair value of the options on the date of grant, net of estimated forfeitures. The Company estimates the grant date fair value, and the resulting stock-based compensation expense, using the Black-Scholes option pricing model for each purchase period. The grant date fair value is expensed on a straight-line basis over the offering period.

Net Loss per Common Share

Basic net loss per common share is calculated by dividing the net loss by the weighted average number of shares of common stock outstanding during the period, without consideration of potentially dilutive securities. Diluted net loss per common share is the same as basic net loss per common share for all periods presented since the effect of potentially dilutive securities are anti-dilutive.

Reclassification of Prior Year Presentation

Certain prior year amounts have been reclassified for consistency with the current period presentation. These reclassifications had no effect on the Company's results of operations, net loss or cash flows.

Recent Accounting Pronouncements

In May 2014, the Financial Accounting Standards Board ("FASB"), issued Accounting Standards Update ("ASU") No. 2014-09, *Revenue from Contracts with Customers (Topic 606)*. Areas of revenue recognition that will be affected include, but are not limited to, transfer of control, variable consideration, allocation of transfer pricing, licenses, time value of money, contract costs and disclosures. The core principle of ASU 2014-09 is to recognize revenues when promised goods or services are transferred to customers in an amount that reflects the consideration that is expected to be received for those goods or services. ASU 2014-09 defines a five-step process to achieve this core principle and, in doing so, it is possible more judgment and estimates may be required within the revenue recognition process than are required under existing GAAP. In addition, Topic 606 requires more detailed disclosures to enable users of financial statements to understand the nature, timing and uncertainty of revenue and cash flows arising from a review of historical accounting policies and practices to identify potential differences in applying Topic 606.

The Company plans to adopt this standard on January 1, 2018 and will use the modified retrospective approach recognizing the cumulative effect of adopting this guidance as an adjustment to its opening accumulated deficit balance, which will have no effect on the Company's consolidated statements of operations or cash flows for the quarter or year ended December 31, 2017. Prior periods will not be retrospectively adjusted. While the evaluation of the new standard is ongoing, the Company believes the adoption will result in a change to net revenue primarily due to the recognition of bad debt expense related to the patient responsibility of both contracted and non-contracted claims, which was \$1.7 million for the nine months ended September 30, 2017, as a reduction of gross revenue rather than as a component of selling, general and administrative and, to a lesser extent, due to timing differences in its recognition of revenue related to non-contracted third-party payor claims as a result of changing from recognition based on the earlier of notification of the payor benefits allowed or when payment is received to the accrual basis based on historical experience.

IRHYTHM TECHNOLOGIES, INC.
Notes to Unaudited Condensed Consolidated Financial Statements (Continued)

In March 2016, the FASB issued ASU No. 2016-09, *Compensation—Stock Compensation (Topic 718)*. This ASU was issued as part of the FASB's simplification initiative and affects all entities that issue share-based payment awards to their employees. This standard covers accounting for income taxes, forfeitures, and statutory tax withholding requirements, as well as classification in the statement of cash flows. As a result of adopting ASU No. 2016-09 on January 1, 2017, the Company has made an accounting policy election to continue to estimate forfeitures. The adoption of ASU No. 2016-09 also requires excess tax benefits and tax deficiencies be recorded in the income statement as opposed to additional paid-in capital when the awards vest or are settled, and has been applied on a prospective basis with no impact on the condensed consolidated financial statements as of and for the three months ended September 30, 2017. As a result of the adoption, the Company increased its total NOLs by \$0.1 million on January 1, 2017 related to deferred tax assets that arose directly from tax deductions related to equity compensation greater than compensation recognized for financial reporting purposes. This amount is fully offset by the valuation allowance.

On May 10, 2017, the FASB issued ASU 2017-09, *Scope of Modification Accounting*, which amends the scope of modification accounting for share-based payment arrangements, provides guidance on the types of changes to the terms or conditions of share-based payment awards to which an entity would be required to apply modification accounting under ASC 718. This ASU is effective for annual reporting periods, including interim periods within those annual reporting periods, beginning after December 15, 2017, with early adoption permitted. The Company is currently evaluating the impact of this new guidance.

3. Cash Equivalents and Investments

The fair value of securities, not including cash at September 30, 2017 and December 31, 2016, were as follows (in thousands):

	September 30, 2017			
	Amortized Cost	Gross Unrealized		Estimated Fair Value
		Gains	Losses	
Money market funds	\$ 5,722	\$ —	\$ —	\$ 5,722
U.S. government securities	35,942	1	(26)	35,917
Corporate notes	15,669	1	(4)	15,666
Commercial paper	48,130	—	—	48,130
Total available-for-sale securities	<u>\$ 105,463</u>	<u>\$ 2</u>	<u>\$ (30)</u>	<u>\$ 105,435</u>
Classified as:				
Cash equivalents				\$ 18,418
Short-term investments				87,017
Total cash equivalents and investments				<u>\$ 105,435</u>

	December 31, 2016			
	Amortized Cost	Gross Unrealized		Estimated Fair Value
		Gains	Losses	
Money market funds	\$ 45,937	\$ —	\$ —	\$ 45,937
U.S. government securities	16,479	11	—	16,490
Corporate notes	23,947	—	(20)	23,927
Commercial paper	24,971	—	—	24,971
Total available-for-sale securities	<u>\$ 111,334</u>	<u>\$ 11</u>	<u>\$ (20)</u>	<u>\$ 111,325</u>
Classified as:				
Cash equivalents				\$ 45,937
Short-term investments				54,407
Long-term investments				10,981
Total cash equivalents and investments				<u>\$ 111,325</u>

Available-for-sale securities held as of September 30, 2017 had a weighted average days to maturity of 122 days. There have been no material realized gains or realized losses on available-for-sale securities for the periods presented.

IRHYTHM TECHNOLOGIES, INC.
Notes to Unaudited Condensed Consolidated Financial Statements (Continued)

As the carrying value approximates the fair value for the Company's cash equivalents, short-term and long-term investments shown in the tables above, the following table summarizes the fair value of the Company's cash equivalents, short-term and long-term investments classified by maturity (in thousands):

	September 30, 2017	December 31, 2016
Due within one year	\$ 105,435	\$ 100,344
Due after one year through three years	—	10,981
Total available-for-sale marketable debt securities	<u>\$ 105,435</u>	<u>\$ 111,325</u>

4. Fair Value Measurements

The Company discloses and recognizes the fair value of its assets and liabilities using a hierarchy that prioritizes the inputs to valuation techniques used to measure fair value. Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability (an exit price) in an orderly transaction between market participants at the reporting date. The hierarchy gives the highest priority to valuations based upon unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurements) and the lowest priority to valuations based upon unobservable inputs that are significant to the valuation (Level 3 measurements). The guidance establishes three levels of the fair value hierarchy as follows:

Level 1 - Inputs are unadjusted quoted prices in active markets for identical assets or liabilities at the measurement date.

Level 2 - Inputs (other than quoted market prices included in Level 1) are either directly or indirectly observable for the asset or liability through correlation with market data at the measurement date and for the duration of the instrument's anticipated life.

Level 3 - Inputs reflect management's best estimate of what market participants would use in pricing the asset or liability at the measurement date. Consideration is given to the risk inherent in the valuation technique and the risk inherent in the inputs to the model.

Assets and liabilities measured at fair value are classified in their entirety based on the lowest level of input that is significant to the fair value measurement. The Company's assessment of the significance of a particular input to the fair value measurement in its entirety requires management to make judgments and consider factors specific to the asset or liability. The corporate notes, commercial paper and government bonds are classified as Level 2 as they were valued based upon quoted market prices for similar instruments in active markets, quoted prices for identical or similar instruments in markets that are not active and model-based valuation techniques for which all significant inputs are observable in the market or can be corroborated by observable market data for substantially the full term of the assets.

Based on Level 2 inputs and the borrowing rates currently available to the Company for loans with similar terms and maturities, the carrying value of the Company's debt approximates its fair value.

The following table presents the fair value of the Company's financial assets and liabilities determined using the inputs defined above (amounts in thousands).

	September 30, 2017			
	Level 1	Level 2	Level 3	Total
Assets				
Money market funds	\$ 5,722	\$ —	\$ —	\$ 5,722
U.S. government securities	—	35,917	—	35,917
Corporate notes	—	15,666	—	15,666
Commercial paper	—	48,130	—	48,130
Total	<u>\$ 5,722</u>	<u>\$ 99,713</u>	<u>\$ —</u>	<u>\$ 105,435</u>

IRHYTHM TECHNOLOGIES, INC.
Notes to Unaudited Condensed Consolidated Financial Statements (Continued)

	December 31, 2016			
	Level 1	Level 2	Level 3	Total
Assets				
Money market funds	\$ 45,937	\$ —	\$ —	\$ 45,937
U.S. government securities	—	16,490	—	16,490
Corporate notes	—	23,927	—	23,927
Commercial paper	—	24,971	—	24,971
Total	<u>\$ 45,937</u>	<u>\$ 65,388</u>	<u>\$ —</u>	<u>\$ 111,325</u>

The following table sets forth a summary of the changes in the fair value of the preferred stock warrants which is classified as Level 3 in the fair value hierarchy. There were no transfers into or out of Level 3 during the periods (in thousands):

	Nine Months Ended September 30, 2017	Nine Months Ended September 30, 2016
Beginning balance	\$ —	\$ 2,949
Total change in fair value recorded as other expense, net	—	996
Ending balance	<u>\$ —</u>	<u>\$ 3,945</u>

The valuation of the preferred stock warrant liabilities is discussed in Note 11.

5. Balance Sheet Components

Inventory and PCBAs

Inventory and PCBAs consisted of the following (in thousands):

	September 30, 2017	December 31, 2016
Raw materials	\$ 737	\$ 839
Finished goods	4,119	3,324
Total	<u>\$ 4,856</u>	<u>\$ 4,163</u>
Reported on the consolidated balance sheet as:		
Inventory	\$ 1,314	\$ 1,390
Other assets	3,542	2,773
Total	<u>\$ 4,856</u>	<u>\$ 4,163</u>

Amounts reported as other assets are comprised of the PCBA costs that are included in both raw materials and finished goods totals above.

IRHYTHM TECHNOLOGIES, INC.
Notes to Unaudited Condensed Consolidated Financial Statements (Continued)

Property and Equipment, Net

Property and equipment, net consisted of the following (in thousands):

	September 30, 2017	December 31, 2016
Laboratory and manufacturing equipment	\$ 2,028	\$ 1,509
Computer equipment and software	916	736
Furniture and fixtures	928	657
Leasehold improvements	703	502
Internal-use software	4,387	2,900
Total property and equipment, gross	8,962	6,304
Less: accumulated depreciation and amortization	(2,755)	(1,651)
Total property and equipment, net	<u>\$ 6,207</u>	<u>\$ 4,653</u>

Depreciation and amortization expense for the three and nine months ended September 30, 2017 and 2016 was \$0.5 million, \$0.2 million, \$1.1 million and \$0.6 million, respectively.

Accrued Liabilities

Accrued liabilities consisted of the following (in thousands):

	September 30, 2017	December 31, 2016
Accrued vacation	\$ 1,923	\$ 1,642
Accrued payroll and related expenses	5,627	6,179
Accrued ESPP contributions	1,029	417
Accrued professional services fees	555	636
Other	2,302	1,291
Total accrued liabilities	<u>\$ 11,436</u>	<u>\$ 10,165</u>

6. Related-Party Transactions

Kaiser Permanente (“Kaiser”) is a common stockholder of the Company, representing 6.1% ownership of the total outstanding shares of the Company as of December 31, 2016. For the three and nine months ended September 30, 2017 and 2016, the Company recognized revenue of \$1.0 million, \$0.4 million, \$2.8 million and \$1.8 million, respectively, for transactions with Kaiser. The amounts receivable from transactions with Kaiser were \$0.7 million and \$0.4 million as of September 30, 2017 and December 31, 2016, respectively. Kaiser performs services related to clinical trials and the Company utilizes Kaiser for employee healthcare and the total expense recorded was \$0.3 million, \$0.1 million, \$0.5 million, and \$0.5 million as of the three and nine months ended September 30, 2017 and 2016, respectively. The amounts outstanding and included in accounts payable and accrued liabilities were \$0.3 million and \$0.2 million as of September 30, 2017, and December 31, 2016 respectively.

7. Commitments and Contingencies

Lease Arrangements

The Company leases office and manufacturing space under non-cancelable operating leases which expire on various dates through 2027. These leases generally contain scheduled rent increases or escalation clauses and renewal options. The Company recognizes rent expense on a straight-line basis over the lease period.

In May 2017, the Company entered into a commercial building lease agreement for its clinical center in Houston, Texas which expires in September 2027.

IRHYTHM TECHNOLOGIES, INC.
Notes to Unaudited Condensed Consolidated Financial Statements (Continued)

The following table summarizes the Company's future minimum lease payments as of September 30, 2017 (in thousands):

Period Ending December 31:		
2017 (remainder of year)	\$	1,263
2018		5,089
2019		5,108
2020		1,178
2021		406
Thereafter		2,541
Total	\$	<u>15,585</u>

The Company's rent expense was \$1.3 million, \$0.6 million, \$3.8 million and \$1.6 million for the three and nine months ended September 30, 2017 and 2016, respectively.

Legal Proceedings

From time to time, the Company may become involved in legal proceedings arising from the ordinary course of its business. Management is currently not aware of any matters that could have a material adverse effect on the financial position, results of operations or cash flows of the Company.

Indemnifications

In the ordinary course of business, the Company enters into agreements that may include indemnification provisions. Pursuant to such agreements, the Company may indemnify, hold harmless and defend an indemnified party for losses suffered or incurred by the indemnified party. Some of the provisions will limit losses to those arising from third-party actions. In some cases, the indemnification will continue after the termination of the agreement. The maximum potential amount of future payments the Company could be required to make under these provisions is not determinable. The Company has also entered into indemnification agreements with its directors and officers that may require the Company to indemnify its directors and officers against liabilities that may arise by reason of their status or service as directors or officers to the fullest extent permitted by California corporate law. The Company currently has directors' and officers' insurance. The Company has never incurred material costs to defend lawsuits or settle claims related to these indemnification provisions, and believes that the estimated fair value of these indemnification obligations is not material and it has not accrued any amounts for these obligations.

8. Debt

Pharmakon Loan Agreement

In December 2015, the Company entered into the Loan Agreement with Biopharma Secured Investments III Holdings Cayman LP, or Pharmakon (the "Pharmakon Loan Agreement"). The Pharmakon Loan Agreement provides for up to \$55.0 million in term loans split into two tranches as follows: (i) the Tranche A Loans are \$30.0 million in term loans, and (ii) the Tranche B Loans are up to \$25.0 million in term loans. The Tranche A Loans were drawn on December 4, 2015. The Tranche B Loans were available to be drawn prior to December 4, 2016. No additional draw was made.

During the first full eight quarters, payments are interest only and for the first two years, 50% of the interest will be "paid-in-kind." The Company is subject to a financial covenant related to minimum trailing revenue targets that begins in June 2017, and is tested on a semi-annual basis. The minimum net revenue covenant ranges from \$44.7 million for the period ended June 30, 2017 to \$102.6 million for the period ended December 31, 2021. To date all minimum revenue targets have been achieved. The minimum net revenues financial covenant has a 45-day equity cure period following required delivery date of the financial statements. Pursuant to this equity cure provision, the Company may cure a revenue covenant default by raising additional funds from the sale of equity. The Company was in compliance with loan covenants as of September 30, 2017. The loan matures December 2021.

The Tranche A Loans bear interest at a fixed rate equal to 9.50% per annum that is due and payable quarterly in arrears. During the first eight calendar quarters, 50% of the interest due and payable shall be added to the then outstanding principal.

IRHYTHM TECHNOLOGIES, INC.
Notes to Unaudited Condensed Consolidated Financial Statements (Continued)

The Pharmakon Loan Agreement requires the Company to maintain a minimum consolidated liquidity and minimum net revenue during the term of the loan facility and contains customary affirmative and negative covenants and event of default provisions that could result in the acceleration of the repayment obligations under the loan facility. Upon a change in control of the Company, Pharmakon has the option to demand payment in full of the outstanding loans together with any prepayment premium.

The obligations under the Pharmakon Loan Agreement are secured by a security interest in substantially all of the Company's assets pursuant to the Pharmakon Guaranty and Security Agreement and this security interest is governed by an intercreditor agreement between Pharmakon and Silicon Valley Bank ("SVB").

In December 2015, the Company used the proceeds from the Pharmakon Loan Agreement to repay \$4.9 million of bank debt to SVB. The issuance costs and debt discount have been netted against the borrowed funds on the balance sheet. The debt balance as of September 30, 2017 and December 31, 2016 was \$32.1 million and \$30.8 million, respectively.

Bank Debt

In June 2014, the Company refinanced its debt with SVB by entering into the Second Amendment to the Amended and Restated Loan Security Agreement ("Second Amendment"). Under this amendment, the Company borrowed \$4.9 million with an additional advance of \$5.0 million available. All the borrowings under the Second Amended Loan Agreement were collateralized by all of the Company's assets, excluding intellectual property. In connection with entering into the Amended Loan Agreement, the Company issued warrants to purchase 20,136 shares of Series D at \$7.31 per share that expire in June 2024 (See Note 11).

In December 2015, the Company used the proceeds from the Pharmakon Loan Agreement to repay \$4.9 million of bank debt to SVB and entered into a Second Amended and Restated Loan and Security Agreement with SVB, or the SVB Loan Agreement. Under the SVB Loan Agreement the Company may borrow, repay and reborrow under a revolving credit line, but not in excess of the maximum loan amount of \$15.0 million, until December 4, 2018, when all outstanding principal and accrued interest becomes due and payable. Any principal amount outstanding under the SVB revolving credit line shall bear interest at a floating rate per annum equal to the rate published by The Wall Street Journal as the "Prime Rate" plus 0.25%, are tied to the Company's trailing six-month revenue and subject to certain revenue targets. The Company may borrow up to 80% of its eligible accounts receivable, up to the maximum of \$15.0 million.

In August 2016, the Company obtained a \$3.1 million standby letter of credit pursuant to the SVB revolving credit facility in connection with a lease for the San Francisco office. As of September 30, 2017 and December 31, 2016, the Company was eligible to borrow up to \$7.7 million and \$2.5 million, respectively, under the SVB revolving credit line.

The SVB Loan Agreement requires the Company to maintain a minimum consolidated liquidity and minimum net sales during the term of the loan facility. In addition, the SVB Loan Agreement contains customary affirmative and negative covenants and events of default. The Company was in compliance with loan covenants as of September 30, 2017. The obligations under the SVB Loan Agreement are collateralized by substantially all assets of the Company and this security interest is governed by an intercreditor agreement between Pharmakon and SVB.

California HealthCare Foundation Note

In November 2012, the Company entered into a Note Purchase Agreement and Promissory Note with the California HealthCare Foundation, or the CHCF Note, through which the Company borrowed \$1.5 million. The CHCF Note accrues simple interest of 2.0%. The accrued interest and the principal was to mature in November 2016. In partial consideration for the issuance of the CHCF Note, the Company issued warrants to purchase 22,807 shares of the Company's Series D convertible preferred stock.

In June 2015, the Company amended the CHCF Note to extend the maturity date to May 2018. In partial consideration for the amendment, the Company issued 8,552 warrants at \$6.58 exercise price per share of the Company's Series D convertible preferred stock. The CHCF note is subordinate to other debt. The debt balance, net of debt discount, as of September 30, 2017 and December 31, 2016 was \$1.6 million and \$1.5 million, respectively.

IRHYTHM TECHNOLOGIES, INC.
Notes to Unaudited Condensed Consolidated Financial Statements (Continued)

9. Income Taxes

The Company did not record a provision or benefit for income taxes during the three and nine months ended September 30, 2017 and 2016, respectively, as it reported losses in each period which are not more likely than not to be realized. Due to the uncertainties surrounding the realization of deferred tax assets through future taxable income, the Company has provided a full valuation allowance and, therefore, no benefit has been recognized for the net operating loss carryforwards and other deferred tax assets.

At December 31, 2016, the Company had \$0.6 million of unrecognized tax benefit, none of which, if recognized, would affect the effective tax rate as most of the unrecognized tax benefit is deferred tax assets currently offset by a valuation allowance.

A number of years may elapse before an uncertain tax position is audited and finally resolved. While it is often difficult to predict the final outcome or the timing of resolution of any particular uncertain tax position, the Company believes that its reserves for income taxes reflect the most likely outcome. The Company adjusts these reserves in light of changing facts and circumstances. Settlement of any particular position could require the use of cash. As of September 30, 2017, changes to the Company's uncertain tax positions in the next twelve months that are reasonably probable are not expected to have a material impact on the Company's financial position or results of operations.

10. Stockholders' Equity

Common stock

As of September 30, 2017, the Company's amended and restated certificate of incorporation dated October 2016, authorized the Company to issue 100,000,000 shares of common stock with a par value of \$0.001 per share and 5,000,000 shares of preferred stock with a par value of \$0.001 per share. The holders of common stock are entitled to receive dividends whenever funds and assets are legally available and when declared by the board of directors. No dividends were declared through September 30, 2017.

The Company had reserved shares of common stock for issuance as follows:

	September 30, 2017	December 31, 2016
Options issued and outstanding	2,765,902	2,977,218
Unvested restricted stock units	453,063	105,529
Common stock warrants issued and outstanding	127,918	217,245
Shares available for grant under future stock plans	4,774,565	4,226,068
	<u>8,121,448</u>	<u>7,526,060</u>

11. Preferred Stock Warrant Liabilities

In November 2012, in connection with borrowings under a convertible note, the Company issued warrants to purchase shares of Series C or New Preferred. The warrants were only exercisable if the Convertible Notes were converted into Series C or New Preferred. The warrants' exercise price is \$0.001 per share and they have a seven year term. On March 27, 2013 the Company closed the Series D financing. The warrants were converted into warrants to purchase 207,177 shares of Series D convertible preferred stock. The Company recognized a charge of \$0.5 million and \$0.7 million related to the change in the fair value of the warrants for the three and nine months ended September 30, 2016. Upon the IPO, the Series D preferred stock warrants converted into common stock warrants and were reclassified to additional paid-in-capital in the Company's balance sheet. As a result, the warrants are no longer subject to fair value remeasurement. As of September 30, 2017, 127,918 warrants were outstanding.

IRHYTHM TECHNOLOGIES, INC.
Notes to Unaudited Condensed Consolidated Financial Statements (Continued)

In June 2014, in connection with borrowings under the Second Amendment (Note 8), the Company issued warrants to purchase 20,136 shares of Series D Preferred Stock at \$7.31 per share that expire June 2024. The fair value of the warrants was determined by using an option pricing model prepared by a third-party based on an allocation of the Company's aggregate value to the outstanding equity instruments, applying a 30% discount to the warrant value for lack of marketability. The fair value of the warrant, \$0.1 million, was recorded as a debt discount and is being amortized over the loan repayment period to interest expense. The Company recognized a charge of \$15,000 and income of \$41,000 related to change in the fair value of the warrants for the three and nine months ended September 30, 2016. The warrants were converted into warrants to purchase common stock upon the completion of the IPO in 2016, and were reclassified to additional paid-in-capital in the Company's balance sheet. One of the warrants for 10,068 shares was exercised through a cashless exercise on October 26, 2016 resulting in the issuance of a net 7,310 shares of the Company's common stock, and the other warrant for 10,068 was exercised through a cashless exercise on May 2, 2017 resulting in the issuance of a net 8,077 shares.

12. Stock Incentive Plans

2006 Plan

In October 2006, the Company adopted the 2006 Equity Incentive Plan, as amended, (the "2006 Plan"). The Plan provided for the granting of stock options to employees and non-employees of the Company. Options granted under the Plan were either incentive stock options or nonqualified stock options. Incentive stock options ("ISO") were granted only to employees (including officers and directors who are also employees). Nonqualified stock options ("NSO") were granted to employees and non-employees. The board of directors had the authority to determine to whom options will be granted, the number of options, the term and the exercise price.

Options under the Plan were granted for periods of up to ten years and at the fair value of the shares on the date of grant as determined by the board of directors. In general, options were exercisable at a rate of 25% after the first anniversary of the grant and then monthly vesting for an additional three years from date of grant. The term for options is no longer than five years for ISOs for which the grantee owns greater than 10% of the voting power of all classes of stock and no longer than ten years for all other options. The Company issues new shares upon the exercise of options.

2016 Plan

In October 2016, the Company adopted the 2016 Equity Incentive Plan, (the "2016 Plan"). The 2016 Plan was subsequently approved by the Company's stockholders and became effective on October 19, 2016, immediately before the effective date of the IPO. Following the effectiveness of the 2016 Plan, no additional options were granted under the 2006 Plan. In addition, to the extent that any awards outstanding or subject to vesting restrictions under the 2006 Plan are subsequently forfeited or terminated for any reason before being exercised or settled, the shares of common stock reserved for issuance pursuant to such awards as of the closing of the IPO will become available for issuance under the 2016 Plan. The remaining shares available for grant under the 2006 Plan became available for issuance under the 2016 Plan upon the closing of the IPO. On the first day of each year beginning with 2017, the 2016 Plan authorizes an annual increase of the least of 3,865,000 shares, 5% of outstanding common stock on the last day of the immediately preceding fiscal year or an amount as determined by the Company's Board of Directors. As of September 30, 2017, the Company has reserved 4,971,966 shares of common stock for issuance under the 2016 Stock Incentive Plan.

Pursuant to the 2016 Plan, stock options, restricted shares, stock units, including restricted stock units and stock appreciation rights, may be granted to employees, consultants, and outside directors of the Company. Options granted may be either ISOs or NSOs.

Stock options are governed by stock option agreements between the Company and recipients of stock options. ISOs and NSOs may be granted under the 2016 Plan at an exercise price of not less than 100% of the fair market value of the common stock on the date of grant, determined by the Compensation Committee of the Board of Directors. Options become exercisable and expire as determined by the Compensation Committee, provided that the term of ISOs may not exceed ten years from the date of grant.

IRHYTHM TECHNOLOGIES, INC.
Notes to Unaudited Condensed Consolidated Financial Statements (Continued)

Employee Stock Purchase Program ("ESPP")

In October 2016, the Company's Board of Directors and stockholders approved the Employee Stock Purchase Plan (the "ESPP"). Under the ESPP, the Company initially reserved 483,031 shares of common stock for issuance as of its effective date of October 19, 2016. On the first day of each calendar year, beginning in 2017, the number of shares in the reserve will increase by the lesser of 966,062 shares, 1.5% of the shares of the Company's common stock outstanding on the last day of the immediately preceding fiscal year, or an amount as determined by the Company's Board of Directors. The ESPP allows eligible employees to purchase shares of the Company's common stock at a discount through payroll deductions of up to 15% of their eligible compensation, subject to any plan limitations. The ESPP provides for twelve-month offering periods that each contain two six-month purchase periods. At the end of each purchase period, employees are able to purchase shares at 85% of the lower of the fair market value of the Company's common stock on the first trading day of the offering period or on the last day of the purchase period.

As of September 30, 2017, 105,128 shares of common stock have been issued to employees participating in the ESPP and 709,993 shares were available for issuance under the ESPP.

Equity Incentive Plan Activity

A summary of share-based awards available for grant under the 2016 Plan is as follows:

	Options Available for Grant
Balance at December 31, 2015	331,938
Additional options authorized	3,865,000
Options granted	(466,914)
Options forfeited	13,013
Balance at December 31, 2016	3,743,037
Additional options authorized	1,106,966
Options granted	(800,846)
Options forfeited	15,415
Balance at September 30, 2017	<u>4,064,572</u>

The following table summarizes stock option activity under the 2006 and 2016 Plans, including grants to non-employees:

	Options Outstanding	Options Outstanding		
		Weighted- Average Exercise Price Per Share	Weighted- Average Remaining Contractual Life (years)	Aggregate Intrinsic Value (in thousands)
Balances at December 31, 2015	2,685,913	\$ 4.81	7.63	\$ 11,589
Options granted	361,385	15.65		
Options exercised	(57,067)	2.33		
Options forfeited	(13,013)	6.92		
Balances at December 31, 2016	<u>2,977,218</u>	6.16	6.93	\$ 70,979
Options granted	449,556	36.24		
Options exercised	(649,213)	3.97		
Options forfeited	(11,659)	15.72		
Balances at September 30, 2017	<u>2,765,902</u>	\$ 11.52	7.29	\$ 111,634
Options exercisable – September 30, 2017	<u>1,656,418</u>	\$ 5.43	6.36	\$ 76,940
Options vested and expected to vest – September 30, 2017	<u>2,698,510</u>	\$ 11.21	7.25	\$ 109,750

The aggregate intrinsic values of options outstanding, exercisable, vested and expected to vest were calculated as the difference between the exercise price of the options and the closing price of the Company's common stock.

IRHYTHM TECHNOLOGIES, INC.
Notes to Unaudited Condensed Consolidated Financial Statements (Continued)

During the nine months ended September 30, 2017 and 2016, the estimated weighted-average grant-date fair value of common stock underlying options granted was \$ 18.50 and \$ 5.78 per share, respectively.

13. Stock-Based Compensation

Employee Stock Options Valuation

The fair value of employee and director stock options was estimated at the date of grant using a Black-Scholes option valuation model with the weighted average assumptions below.

	Three Months Ended September 30		Nine Months Ended September 30	
	2017	2016	2017	2016
Expected term (in years)	6.1	6.1	6.1	6.1
Expected volatility	46.9%	60.0%	52.1%	60.0%
Risk-free interest rate	1.94%	1.28%	2.07%	1.45%
Dividend yield	0.0%	0.0%	0.0%	0.0%

Stock-Based Compensation

The following table summarizes the total stock-based compensation expense included in the statements of operations and comprehensive loss for all periods presented (in thousands):

	Three Months Ended September 30		Nine Months Ended September 30	
	2017	2016	2017	2016
Cost of revenue	\$ 36	\$ 3	\$ 112	\$ 8
Research and development	446	34	1,198	103
Selling, general and administrative	2,249	364	5,714	1,140
Total stock-based compensation expense	<u>\$ 2,731</u>	<u>\$ 401</u>	<u>\$ 7,024</u>	<u>\$ 1,251</u>

As September 30, 2017, there was total unamortized compensation costs of \$10.1 million, net of estimated forfeitures, related to unvested stock options which the Company expects to recognize over a period of approximately 2.5 years, \$12.4 million, net of estimated forfeitures, related to unrecognized restricted stock unit ("RSU") expense, which the Company expects to recognize over a period of 2.7 years, and \$0.4 million unrecognized ESPP expense, which the Company will recognize over 0.7 years.

Non-Employee Stock-Based Compensation

Stock-based compensation expense related to stock options granted to non-employees is recognized as the stock options are earned. The measurement of stock-based compensation for non-employees is subject to periodic adjustment as the underlying equity instruments vest, and the related compensation expense is based on the estimated fair value of the equity instruments using the Black-Scholes option pricing model. The Company believes that the estimated fair value of the stock options is more readily measurable than the fair value of the services received. Such expense was not material for the three and nine months ended September 30, 2017 and 2016.

IRHYTHM TECHNOLOGIES, INC.
Notes to Unaudited Condensed Consolidated Financial Statements (Continued)

14. Net Loss Per Common Share

As the Company had net losses for the three and nine months ended September 30, 2017 and 2016, all potential common shares were determined to be anti-dilutive. The following table sets forth the computation of the basic and diluted net loss per share attributable to common stockholders (in thousands, except share and per share data):

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2017	2016	2017	2016
Numerator:				
Net loss	\$ (6,524)	\$ (4,075)	\$ (18,271)	\$ (14,637)
Denominator:				
Weighted-average shares used to compute net loss per common share, basic and diluted	22,811,907	1,454,307	22,446,399	1,434,583
Net loss per common share, basic and diluted	\$ (0.29)	\$ (2.80)	\$ (0.81)	\$ (10.20)

The following outstanding shares of potentially dilutive securities have been excluded from diluted net loss per common share for the three and nine months ended September 30, 2017 and 2016, because their inclusion would be anti-dilutive:

	As of September 30,	
	2017	2016
Convertible preferred stock on an as-if converted basis	—	13,343,981
Options to purchase common stock	2,765,902	2,732,538
RSUs issued and unvested	453,063	—
Warrants to purchase convertible preferred stock on an as-if converted basis	—	328,114
Warrants to purchase common stock	127,918	—
Total	3,346,883	16,404,633

ITEM 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

You should read the following discussion and analysis of our financial condition and results of operations together with the unaudited financial statements and related notes included elsewhere in this Quarterly Report on Form 10-Q. This discussion and other parts of this Quarterly Report on Form 10-Q contain forward-looking statements that involve risks and uncertainties, such as statements of our plans, objectives, expectations and intentions. Our actual results could differ materially from those discussed in these forward-looking statements. Factors that could cause or contribute to such differences include, but are not limited to, those discussed in the section of this Quarterly Report on Form 10-Q entitled "Risk Factors."

Overview

We are a digital healthcare company redefining the way cardiac arrhythmias are clinically diagnosed by combining our wearable biosensing technology with cloud-based data analytics and machine-learning capabilities. Our goal is to be the leading provider of first-line ambulatory electrocardiogram, or ECG, monitoring for patients at risk for arrhythmias. We have created a unique platform, called the ZIO Service, which combines an easy-to-wear and unobtrusive biosensor that can be worn for up to 14 days, called the ZIO Patch, with powerful proprietary algorithms which distill data from millions of heartbeats into clinically actionable information. The ZIO Service consists of:

- the wearable ZIO Patch biosensor, which continuously records and stores ECG data from every patient heartbeat for up to 14 days
- a cloud-based analysis of the recorded cardiac rhythms using our proprietary machine-learned algorithms
- a final quality assessment review of the data by our certified cardiac technicians
- the easy-to-read ZIO Report, a curated summary of findings that includes high quality and clinically-actionable information, which is sent directly to a patient's physician and can be integrated into a patient's electronic health record

We receive revenue for the ZIO Service primarily from two sources: third-party payors and institutions. Third-party payors, which accounted for approximately 81% and 73% of our revenue for the nine months ended September 30, 2017 and 2016, respectively, consist of commercial payors and government agencies, such as the Centers for Medicare & Medicaid Services, or CMS, and the Veterans Administration, or the VA. A significant portion of our revenue in the third-party commercial payor category is contracted, which means we have entered into pricing contracts with these payors. Approximately 38% and 40% of our total revenue for the nine months ended September 30, 2017 and 2016, respectively, is received from federal government agencies under established reimbursement codes. A small portion of this revenue is received from patients in accordance with their insurance co-payments and deductibles. Institutions, which are typically hospitals, clinics, or private physician practices, accounted for approximately 19 % and 26% of our revenue for the nine months ended September 30, 2017 and 2016, respectively. We bill these organizations directly for our services and they are responsible for paying those invoices and seeking reimbursement from third-party payors where applicable. In addition, a small percentage of patients whose physicians prescribe the ZIO Service pay us directly. Typically, we bill institutional customers and rely on a third-party billing partner, XIFIN, Inc., to submit patient claims and collect from commercial and certain government agencies.

Since our ZIO Service was cleared by the U.S. Food and Drug Administration, or FDA, in 2009, we have provided the ZIO Service to over 700,000 patients and have collected over 200 million hours of curated heartbeat data. We believe the ZIO Service is well-positioned to disrupt an already-established \$1.4 billion U.S. ambulatory cardiac monitoring market by offering a user-friendly device to patients, actionable information to physicians and value to payors.

We market our ZIO Service in the United States to physicians, hospitals and clinics through a direct sales organization comprised of sales management, field billing specialists and quota-carrying sales representatives. Our sales representatives focus on initial introduction into new customers, penetration across a sales region, driving adoption within existing accounts and conveying our message of clinical and economic value to service line managers and hospital administrators and departments. We expect to continue to increase the size of our U.S. sales organization to expand the current customer account base and increase utilization of our monitoring solution. In addition, we will continue to explore new opportunities to expand our sales and marketing efforts in international geographies using both direct and distribution channels.

Components of Results of Operations

Revenue

Substantially all of our revenue is derived from sales of our ZIO Service in the United States. We earn revenue from the provision of our ZIO Service primarily from two sources, third-party payors and institutions; however, a small percentage of our revenue is derived directly from patient payments. For the nine months ended September 30, 2017 and 2016, we recognized approximately 88 % and 83 %, respectively, of our revenue on an accrual basis for instances where we have a predictable history of collections, contracted payors and institutions. We recognize revenue based on the billing rate less contractual and other adjustments to arrive at the amount we expect to collect from third-party payors with an established billing rate. We determine the amount we expect to collect based on a per-payor or agreement basis, after analyzing payment history. When we do not have a contract or agreement, or have an insufficient or unpredictable history of collections, we recognize revenue only upon the earlier of notification of the payor benefits allowed or when payment is received. We expect our revenue to increase as we increase the number of covered and contracted lives for our ZIO Service, expand our sales and marketing infrastructure, increase awareness of our product offerings, expand the range of indications for our ZIO Service and develop new products and services. We are subject to seasonality similar to other companies in our field, as vacations by physicians and patients tend to affect enrollment in the ZIO Service more during the summer months and during the end of year holidays compared to other times of the year. To date, the effect of these seasonal fluctuations on our quarterly results has been obscured by the growth of our business.

Cost of Revenue and Gross Margin

Cost of revenue is expensed as incurred and includes direct labor, material costs, equipment and infrastructure expenses, allocated overhead, and shipping and handling. Direct labor includes personnel involved in manufacturing and data analysis. Material costs include both the disposable materials costs of the ZIO Patch and amortization of the re-usable printed circuit board assemblies, or PCBAs. Each ZIO Patch includes a PCBA, the cost of which is amortized over the anticipated number of uses of the board. We expect cost of revenue to increase in absolute dollars to the extent our revenue grows.

We calculate gross margin as gross profit divided by revenue. Our gross margin has been and will continue to be affected by a variety of factors, including increased contracting with third-party payors and institutional providers. Historically, we have increased our average selling price by entering into contracts with third-party commercial payors at rates that were higher than amounts typically collected from payors without contracts or from institutional customers. We have in the past been able to increase our pricing as third-party payors become more familiar with the benefits of the ZIO Service and move to contracted pricing arrangements. We believe we will be able to continue to achieve pricing increases as more payors contract with us due to the benefits the ZIO Service provides compared to other available products. We expect to continue to decrease the cost of service per device by obtaining volume purchase discounts for our material costs and implementing scan time algorithm improvements and software-driven workflow enhancements to reduce labor costs. We expect further decreases in the cost of service as we spread the fixed portion of our manufacturing overhead costs over a larger number of units produced, which will result in a decrease in our per unit manufacturing costs.

Research and Development Expenses

We expense research and development costs as they are incurred. Research and development expenses include payroll and personnel-related costs, including stock-based compensation, consulting services, clinical studies, laboratory supplies and an allocation of facility overhead costs. We expect our research and development costs to increase in absolute dollars as we hire additional personnel to develop new product and service offerings and product enhancements.

Selling, General and Administrative Expenses

Our sales and marketing expenses consist of payroll and personnel-related costs, including stock-based compensation, sales commissions, travel expenses, consulting, public relations costs, direct marketing, tradeshow and promotional expenses and allocated facility overhead costs. We expect our sales and marketing expenses to increase in absolute dollars as we hire additional sales personnel and increase our sales support infrastructure in order to further penetrate the U.S. market and expand into international markets.

Our general and administrative expenses consist primarily of compensation for executive, finance, legal and administrative personnel, including stock-based compensation. Other significant expenses include professional fees for legal and accounting services, consulting fees, recruiting fees, bad debt expense, third-party patient claims processing fees and travel expenses.

We expect to incur additional general and administrative expenses as a result of operating as a public company, including expenses related to compliance with the rules and regulations of the Securities and Exchange Commission, or SEC, the Sarbanes-Oxley Act, and those of any national securities exchange on which our securities are traded, additional insurance expenses, investor relations activities and other administrative and professional services.

Interest Expense

Interest expense consists of cash and non-cash components. The cash component of interest expense is attributable to borrowings under our loan agreements and amounts owed under the promissory note issued to California HealthCare Foundation. The non-cash component consists of interest expense recognized from the amortization of debt discounts derived from the issuance of warrants and debt issuance costs capitalized on our balance sheets, and “paid-in-kind” interest when debt payments are interest only and are added back to the debt balance.

Other Expense, Net

Other expense, net consists primarily of the change in fair value of our convertible preferred stock warrant liabilities and interest income. Our convertible preferred stock warrants were exercisable for shares that were contingently redeemable and as such, were classified as a liability on our balance sheets at their estimated fair value. Upon completion of our IPO, all convertible preferred stock warrants converted into warrants to purchase common stock. Interest income consists primarily of interest received on our cash, cash equivalents and investments balances.

Results of Operations

Comparison of the Three Months Ended September 30, 2017 and 2016

	Three Months Ended September 30,		\$ Change	% Change
	2017	2016		
Revenue	\$ 25,035	\$ 16,780	\$ 8,255	49%
Cost of revenue	6,920	5,282	1,638	31%
Gross profit	18,115	11,498	6,617	58%
Gross margin	72%	69%		
Operating expenses:				
Research and development	3,790	1,635	2,155	132%
Selling, general and administrative	20,308	12,529	7,779	62%
Total operating expenses	24,098	14,164	9,934	70%
Loss from operations	(5,983)	(2,666)	(3,317)	124%
Interest expense	(862)	(807)	(55)	7%
Other income (expense), net	321	(602)	923	153%
Net loss and comprehensive loss	\$ (6,524)	\$ (4,075)	\$ (2,449)	60%

Revenue

Revenue increased \$ 8.3 million, or 49 %, to \$ 25.0 million during the three months ended September 30, 2017 from \$ 16.8 million during the three months ended September 30, 2016. Revenue in the period primarily benefitted from volume increases of the ZIO Service performed, as well as an improvement in the average contracted rate.

Cost of Revenue and Gross Margin

Cost of revenue increased \$ 1.6 million, or 31 %, to \$ 6.9 million during the three months ended September 30, 2017 from \$ 5.3 million during the three months ended September 30, 2016. The increase in cost of revenue was primarily due to increased ZIO Service volume. This increase was partially offset by the reduction in costs to provide the ZIO Service, which was achieved primarily through manufacturing efficiencies in the production of our device and material cost reductions, and to a lesser extent by fixed costs absorption and reduced labor costs per device of our service through our algorithm improvements and software-driven workflow enhancements.

Gross margin for the three months ended September 30, 2017 increased to 72 %, compared to 69 % for the three months ended September 30, 2016. The increase was primarily due to the revenue mix shift driven by the success of our contracting efforts, secondarily by the reduction in the cost of the ZIO Service due to our continued efforts to lower manufacturing costs, and to a lesser extent by fixed costs absorption and reduced labor costs per device of our service through our algorithm improvements and software-driven workflow enhancements.

Research and Development Expenses

Research and development expenses increased \$ 2.2 million, or 132 %, to \$ 3.8 million during the three months ended September 30, 2017 from \$ 1.6 million during the three months ended September 30, 2016. The increase was primarily attributable to a \$ 1.5 million increase in payroll and personnel-related expenses as a result of increased headcount, \$ 0.4 million increase in allocated facility-related expenses, and \$0.2 million for clinical trials and other expenses.

Selling, General and Administrative Expenses

Selling, general and administrative expenses increased \$ 7.8 million, or 62 %, to \$ 20.3 million during the three months ended September 30, 2017 from \$ 12.5 million during the three months ended September 30, 2016. The increase was primarily attributable to a \$ 4.0 million increase in payroll and personnel-related expenses, including \$ 1.9 million for non-cash stock-based compensation, as a result of increased headcount to support the growth in our operations, \$ 1.6 million increase in professional services expenses, primarily as a result of an increase in accounting and finance costs, \$1.0 million increase in commissions due to sales team expansion, a \$ 0.5 million increase in allocated facility-related expenses and \$ 0.5 million increase related to travel expenses.

Interest Expense

Interest expense increased \$ 0.1 million , or 7%, to \$0.9 million during the three months ended September 30, 2017 from \$0.8 million during the three months ended September 30, 2016 and is due to our debt financing entered into in December 2015.

Other Income (Expense), Net

Other income (expense), net increased \$ 0.9 million, or 153%, to income of \$ 0.3 million during the three months ended September 30, 2017 from expense of \$ 0.6 million during the three months ended September 30, 2016. The increase was primarily related to \$0.6 million of expense related to the revaluation of warrants in 2016 and an increase of \$ 0.3 million increase of interest income from our investments in 2017.

Comparison of the Nine Months Ended September 30, 2017 and 2016

	Nine Months Ended September 30,		\$ Change	% Change
	2017	2016		
Revenue	\$ 70,327	\$ 45,368	\$ 24,959	55%
Cost of revenue	20,002	15,097	4,905	32%
Gross profit	50,325	30,271	20,054	66%
Gross margin	72%	67%		
Operating expenses:				
Research and development	9,187	4,847	4,340	90%
Selling, general and administrative	57,787	36,658	21,129	58%
Total operating expenses	66,974	41,505	25,469	61%
Loss from operations	(16,649)	(11,234)	(5,415)	48%
Interest expense	(2,522)	(2,388)	(134)	6%
Other income (expense), net	900	(1,015)	1,915	-189%
Net loss and comprehensive loss	\$ (18,271)	\$ (14,637)	\$ (3,634)	25%

Revenue

Revenue increased \$ 25.0 million, or 55 %, to \$ 70.3 million during the nine months ended September 30, 2017 from \$ 45.4 million during the nine months ended September 30, 2016. Revenue in the period primarily benefitted from volume increases of the ZIO Service performed, as well as improvements in the overall contracted rate.

Cost of Revenue and Gross Margin

Cost of revenue increased \$ 4.9 million, or 32 %, to \$ 20.0 million during the nine months ended September 30, 2017 from \$ 15.1 million during the nine months ended September 30, 2016. The increase in cost of revenue was primarily due to increased ZIO Service volume. This increase was partially offset by the reduction in costs to provide the ZIO Service, which was achieved primarily through manufacturing efficiencies in the production of our device and material cost reductions, and to a lesser extent by fixed costs absorption and reduced labor costs per device through our algorithm improvements and software-driven workflow enhancements.

Gross margin for the nine months ended September 30, 2017 increased to 72 %, compared to 67 % for the nine months ended September 30, 2016. The increase was primarily due to the revenue mix shift driven by the success of our contracting efforts, secondarily by the reduction in the cost of the ZIO Service due to our continued efforts to lower manufacturing costs, and to a lesser extent by fixed costs absorption and reduced labor costs per device of our service through our algorithm improvements and software-driven workflow enhancements.

Research and Development Expenses

Research and development expenses increased \$ 4.3 million, or 90 %, to \$ 9.2 million during the nine months ended September 30, 2017 from \$ 4.8 million during the nine months ended September 30, 2016. The increase was primarily attributable to a \$ 2.8 million increase in payroll and personnel-related expenses as a result of increased headcount and a \$ 1.2 million increase in allocated facility-related expenses.

Selling, General and Administrative Expenses

Selling, general and administrative expenses increased \$ 21.1 million, or 58 %, to \$ 57.8 million during the nine months ended September 30, 2017 from \$ 36.7 million during the nine months ended September 30, 2016. The increase was primarily attributable to a \$ 10.2 million increase in payroll and personnel-related expenses, including \$ 4.6 million for non-cash stock-based compensation, as a result of increased headcount to support the growth in our operations, a \$ 4.9 million increase in professional services expenses, primarily as a result of an increase in consulting, accounting, legal, claims processing and recruiting services expenses, a \$ 1.9 million increase in allocated facility and other-related expenses, a \$ 1.4 million increase related to travel expenses, \$1.2 million increase in commissions due to sales team expansion, \$0.5 million increase in insurance and a \$ 0.4 million increase in bad debt expense.

Interest Expense

Interest expense increased \$ 0.1 million, or 6%, to \$2.5 million during the nine months ended September 30, 2017 as compared to the nine months ended September 30, 2016 due to the increased principal balance of our December 2015 debt financing as a result of paid-in-kind interest.

Other Income (Expense), Net

Other income (expense), net increased \$ 1.9 million to income of \$ 0.9 million during the nine months ended September 30, 2017 from expense of \$ 1.0 million during the nine months ended September 30, 2016. The change was primarily related to an increase of \$ 0.8 million of interest income from our investments and \$ 1.0 million decrease from the fair value re-measurement of preferred warrant liabilities at each balance sheet date, which concluded upon the conversion to common warrants upon the IPO in October 2016.

Liquidity and Capital Expenditures

Overview

As of September 30, 2017, we had cash and cash equivalents of \$ 20.4 million and short-term investments of \$ 87.0 million and an accumulated deficit of \$ 145.4 million. In connection with our IPO that closed in October 2016, we received net cash proceeds of \$110.7 million, net of underwriters' discounts and commissions and expenses paid by us. Prior to the IPO, we financed our operations primarily through sales of our private securities, sales of our products and services and debt financings.

Our expected future capital requirements may depend on many factors including expanding our customer base, the expansion of our salesforce, and the timing and extent of spending on the development of our technology to increase our product offerings. If we raise additional funds by issuing equity securities, our stockholders may experience dilution. Any future debt financing into which we enter may impose upon us additional covenants that restrict our operations, including limitations on our ability to incur liens or additional debt, pay dividends, repurchase our common stock, make certain investments and engage in certain merger, consolidation or asset sale transactions. Any debt financing or additional equity that we raise may contain terms that are not favorable to us or our stockholders.

Cash Flows

The following table summarizes our cash flows for the periods indicated (in thousands):

(in thousands)	Nine Months Ended September 30,	
	2017	2016
Net cash (used in) provided by:		
Operating activities	\$ (11,188)	\$ (15,617)
Investing activities	(24,121)	(1,821)
Financing activities	4,095	(2,009)
Net decrease in cash and cash equivalents	<u>\$ (31,214)</u>	<u>\$ (19,447)</u>

Cash Used in Operating Activities

During the nine months ended September 30, 2017, cash used in operating activities was \$11.2 million, which consisted of a net loss of \$18.3 million, adjusted by non-cash charges of \$15.2 million and a net change of \$8.1 million in our net operating assets and liabilities. The non-cash charges are primarily comprised of a change in stock based-based compensation of \$7.0 million, in allowance for doubtful accounts and contractual allowance of \$5.9 million, non-cash interest expense of \$1.2 million and depreciation and amortization of \$1.1 million. The change in our net operating assets and liabilities was primarily due to a decrease of \$8.6 million in accounts receivable as a result of increased revenues.

During the nine months ended September 30, 2016, cash used in operating activities was \$15.6 million, which consisted of a net loss of \$14.6 million, adjusted by non-cash charges of \$7.7 million and a net change of \$8.7 million in our net operating assets and liabilities. The non-cash charges are primarily comprised of a change in allowance for doubtful accounts and contractual allowance of \$3.4 million, change in value of warrant liability of \$1.0 million, stock based-based compensation of \$1.3 million and depreciation and amortization of \$0.6 million. The change in our net operating assets and liabilities was primarily due to an increase of \$7.1 million in accounts receivable as a result of an increase in revenue and a decrease of \$0.4 million in accrued liabilities, primarily related to payments made on accrued payroll and related compensation accruals. This change was partially offset by a \$0.1 million increase in accounts payable due to timing of vendor payments, a \$0.5 million increase in inventory to support the growth in our business and a \$0.8 million increase in other assets primarily related to the purchase of ZIO Patch PCBAs to support the growth in volume of ZIO Service performed.

Cash Used in Investing Activities

Cash used in investing activities during the nine months ended September 30, 2017 was \$24.1 million, which consisted primarily of \$90.2 million in purchases of investments, \$2.7 million of capital expenditures to purchase property and equipment, which were partially offset by \$68.7 million of maturities of investments.

Cash used in investing activities during the nine months ended September 30, 2016 was \$1.8 million, which consisted of capital expenditures to purchase property and equipment

Cash Provided by Financing Activities

During the nine months ended September 30, 2017, cash provided by financing activities was \$4.1 million from the proceeds of employee option exercises and ESPP stock purchases.

During the nine months ended September 30, 2016, cash used in financing activities was \$2.0 million, primarily consisting of payments of deferred issuance costs related to the IPO.

Indebtedness

Pharmakon Loan Agreement

In December 2015, we entered into the Loan Agreement with Pharmakon. The Pharmakon Loan Agreement provides for up to \$55.0 million in term loans split into two tranches as follows: (i) Tranche A Loans of \$30.0 million in term loans, and (ii) Tranche B Loans are up to \$25.0 million in term loans. The Tranche A Loans were drawn on December 4, 2015. The Tranche B Loans were available to be drawn prior to December 4, 2016. No additional draw was taken.

During the first four years, payments are interest only, and for the first two years, 50% of the interest will be “paid-in-kind.” We are subject to a financial covenant related to minimum trailing revenue targets that begins in June 2017, and is tested on a semi-annual basis. The minimum net revenue covenant ranges from \$44.7 million for the period ended June 30, 2017 to \$102.6 million for the period ended December 31, 2021, which was achieved as of June 30, 2017. The minimum net revenue financial covenant has a 45-day equity cure period following required delivery date of the financial statements. Pursuant to this equity cure provision, we may cure a revenue covenant default by raising additional funds from the sale of equity. The loan matures in December 2021. As of September 30, 2017, \$32.7 million in principal and interest was outstanding under the Pharmakon Loan Agreement.

The Tranche A Loans bear interest at a fixed rate equal to 9.50% per annum, which is due and payable quarterly in arrears. During the first eight calendar quarters, 50% of the interest due and payable shall be added to the then-outstanding principal.

The Pharmakon Loan Agreement requires us to maintain a minimum liquidity and minimum net sales during the term of the loan facility and contains customary affirmative and negative covenants and event of default provisions that could result in the acceleration of the repayment obligations under the loan facility. Upon a change in control of the company, Pharmakon has the option to demand payment in full of the outstanding loans together with the prepayment premium. The obligations under the Pharmakon Loan Agreement are secured by a security interest in substantially all of our assets pursuant to the Pharmakon Guaranty and Security Agreement, and this security interest is governed by an intercreditor agreement between Pharmakon and Silicon Valley Bank, or SVB.

SVB Loan and Security Agreement

In June 2014, we refinanced our debt with SVB by entering into a Second Amendment to the Amended and Restated Loan Security Agreement, or Second Amendment. Under the Second Amendment, we borrowed \$4.9 million.

In December 2015, we used the proceeds from the Pharmakon Loan Agreement to repay \$4.9 million of bank debt to SVB and entered into a Second Amended and Restated Loan and Security Agreement with SVB, or the SVB Loan Agreement. Under the SVB Loan Agreement we may borrow, repay and reborrow under a revolving credit line, but not in excess of the maximum loan amount of \$15.0 million, until December 4, 2018, when all outstanding principal and accrued interest becomes due and payable. Any principal amount outstanding under the SVB revolving credit line bears interest at a floating rate per annum equal to the rate published by *The Wall Street Journal* as the “Prime Rate” plus 0.25%. The credit line is subject to financial covenants tied to our trailing twelve-month net sales. We may borrow up to 80% of our eligible accounts receivable, up to the maximum of \$15.0 million. In August 2016, we obtained a \$3.1 million letter of credit pursuant to the SVB revolving credit facility in connection with a new lease. As of September 30, 2017, we were eligible to borrow up to approximately \$7.7 million and no amount was outstanding under the SVB revolving credit line.

The SVB Loan Agreement requires us to maintain a minimum consolidated liquidity and minimum net sales during the term of the loan facility. In addition, the SVB Loan Agreement contains customary affirmative and negative covenants and events of default. The obligations under the SVB Loan Agreement are secured by a security interest in substantially all of our assets, and this security interest is governed by an intercreditor agreement between Pharmakon and SVB.

CHCF Note

In November 2012, we entered into a Note Purchase Agreement and Promissory Note with the California HealthCare Foundation, or the CHCF Note, through which we borrowed \$1.5 million. The CHCF Note accrues simple interest of 2.0%. The accrued interest and the principal was set to mature in November 2016. In June 2015, we amended the CHCF Note to extend the maturity date to May 2018. The CHCF Note is subordinate to other debt.

Off-Balance Sheet Arrangements

We have not entered into any off-balance sheet arrangements and do not have any holdings in variable interest entities.

Contractual Obligations

Our contractual obligations as of December 31, 2016 are presented in our 10-K filed with the SEC on March 31, 2017. With the exception of the following, there have been no material changes:

On May 1, 2017, the Company entered into a commercial building lease agreement. The lease will expire in September 2027 and provides for the lease of 20,276 square feet of office space in Houston, Texas. With the exception of the first four months, which are at a discount, the base annual rent is approximately \$31,000 per month and escalates 2.5% per year. The total base rent payable over the lease period is approximately \$4.3 million.

Recent Accounting Pronouncements

In May 2014, the Financial Accounting Standards Board (“FASB”), issued Accounting Standards Update (“ASU”) No. 2014-09, *Revenue from Contracts with Customers (Topic 606)*. Areas of revenue recognition that will be affected include, but are not limited to, transfer of control, variable consideration, allocation of transfer pricing, licenses, time value of money, contract costs and disclosures. The core principle of ASU 2014-09 is to recognize revenues when promised goods or services are transferred to customers in an amount that reflects the consideration that is expected to be received for those goods or services. ASU 2014-09 defines a five-step process to achieve this core principle and, in doing so, it is possible more judgment and estimates may be required within the revenue recognition process than are required under existing GAAP. In addition, Topic 606 requires more detailed disclosures to enable users of financial statements to understand the nature, timing and uncertainty of revenue and cash flows arising from a review of historical accounting policies and practices to identify potential differences in applying Topic 606.

The Company plans to adopt this standard on January 1, 2018 and will use the modified retrospective approach recognizing the cumulative effect of adopting this guidance as an adjustment to its opening accumulated deficit balance, which will have no effect on the Company’s consolidated statements of operations or cash flows for the quarter or year ended December 31, 2017. Prior periods will not be retrospectively adjusted. While the evaluation of the new standard is ongoing, the Company believes the adoption will result in a change to net revenue primarily due to the recognition of bad debt expense related to the patient responsibility of both contracted and non-contracted claims, which was \$1.7 million for the nine months ended September 30, 2017, as a reduction of gross revenue rather than as a component of selling, general and administrative and, to a lesser extent, due to timing differences in its recognition of revenue related to non-contracted third-party payor claims as a result of changing from recognition based on the earlier of notification of the payor benefits allowed or when payment is received to the accrual basis based on historical experience.

In March 2016, the FASB issued ASU No. 2016-09, *Compensation—Stock Compensation (Topic 718)*. This ASU was issued as part of the FASB’s simplification initiative and affects all entities that issue share-based payment awards to their employees. This standard covers accounting for income taxes, forfeitures, and statutory tax withholding requirements, as well as classification in the statement of cash flows. As a result of adopting ASU No. 2016-09 on January 1, 2017, the Company has made an accounting policy election to continue to estimate forfeitures. The adoption of ASU No. 2016-09 also requires excess tax benefits and tax deficiencies be recorded in the income statement as opposed to additional paid-in capital when the awards vest or are settled, and has been applied on a prospective basis with no impact on the condensed consolidated financial statements as of and for the three months ended September 30, 2017. As a result of the adoption, the Company increased its total NOLs by \$0.1 million on January 1, 2017 related to deferred tax assets that arose directly from tax deductions related to equity compensation greater than compensation recognized for financial reporting purposes. This amount is fully offset by the valuation allowance.

On May 10, 2017, the FASB issued ASU 2017-09, *Scope of Modification Accounting*, which amends the scope of modification accounting for share-based payment arrangements, provides guidance on the types of changes to the terms or conditions of share-based payment awards to which an entity would be required to apply modification accounting under ASC 718. This ASU is effective for annual reporting periods, including interim periods within those annual reporting periods, beginning after December 15, 2017, with early adoption permitted. The Company is currently evaluating the impact of this new guidance.

ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

We are exposed to market risks in the ordinary course of our business. These risks primarily include risk related to interest rate sensitivities and foreign currency exchange rate sensitivity.

Interest Rate Sensitivity

We had cash, cash equivalents and investments of \$107.4 million as of September 30, 2017, which consisted of bank deposits, money market funds, U.S. government securities, corporate notes, and commercial paper. Such interest-earning instruments carry a degree of interest rate risk; however, historical fluctuations in interest income have not been significant.

We do not enter into investments for trading or speculative purposes and have not used any derivative financial instruments to manage our interest rate risk exposure. We have not been exposed nor do we anticipate being exposed to material risks due to changes in interest rates. A hypothetical 10% change in interest rates during any of the periods presented would not have had a material impact on our condensed consolidated financial statements.

We had total outstanding debt of \$33.5 million, which is net of debt discount and debt issuance costs, as of September 30, 2017. The interest rates on our outstanding debt carry fixed interest rates. A hypothetical 10% change in interest rates during any of the periods presented would not have had a material impact on our condensed consolidated financial statements.

Foreign Currency Exchange Rate Sensitivity

We face foreign exchange risk as a result of entering into transactions denominated in currencies other than U.S. dollars, particularly in British Pound Sterling. We do not utilize any forward foreign exchange contracts. All foreign transactions settle on the applicable spot exchange basis at the time such payments are made.

ITEM 4. CONTROLS AND PROCEDURES

Evaluation of Disclosure Controls and Procedures

Our management, with the participation of our President and Chief Executive Officer and our Chief Financial Officer, have evaluated 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) prior to the filing of this quarterly report. Based on that evaluation, our President and Chief Executive Officer and our Chief Financial Officer have concluded that, as of the end of the period covered by this quarterly report, our disclosure controls and procedures were effective at the reasonable assurance level.

Changes in Internal Control Over Financial Reporting

There were no changes in our internal control over financial reporting that occurred during our most recently completed fiscal quarter that materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

Limitations on Effectiveness of Controls and Procedures

In designing and evaluating the disclosure controls and procedures, management recognizes that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving the desired control objectives. In addition, the design of disclosure controls and procedures must reflect the fact that there are resource constraints and that management is required to apply judgment in evaluating the benefits of possible controls and procedures relative to their costs.

PART II – OTHER INFORMATION

ITEM 1 LEGAL PROCEEDINGS

Legal Proceedings

We are not currently a party to any material legal proceedings. From time to time we may be involved in legal proceedings or investigations by governmental agencies. For example, we could become involved in litigation related to advertising, unfair competition or intellectual property litigation with our competitors. The defense of these and other matters can be time consuming, costly to defend in litigation, divert management's attention and resources, damage our reputation and brand and cause us to incur significant expenses or make substantial payments to satisfy judgments or settle claims, all of which could have an adverse impact on our results of operations, financial position or cash flows.

ITEM 1A RISK FACTORS

Investing in our common stock involves a high degree of risk. You should carefully consider the risks and uncertainties described below, together with all of the other information contained in this Quarterly Report on Form 10-Q, including our financial statements and the related notes thereto, before making a decision to invest in our common stock. The realization of any of the following risks could materially and adversely affect our business, financial condition, operating results and prospects. In that event, the price of our common stock could decline, and you could lose part or all of your investment.

Risks Related to Our Business

We have a history of net losses, which we expect to continue, and we may not be able to achieve or sustain profitability in the future

We have incurred net losses since our inception in September 2006. For the nine months ended September 30, 2017 and 2016, we had a net loss of \$ 18.3 million and \$14.6 million, respectively, and we expect to continue to incur additional losses. As of September 30, 2017, we had an accumulated deficit of \$ 145.4 million. The losses and accumulated deficit were primarily due to the substantial investments we made to develop and improve our technology and products and improve our business and the ZIO Service through research and development efforts and infrastructure improvements. Over the next several years, we expect to continue to devote substantially all of our resources to increase adoption of and reimbursement for our ZIO Service and to develop additional arrhythmic detection and management products and services. These efforts may prove more expensive than we currently anticipate and we may not succeed in increasing our revenue sufficiently to offset these higher expenses or at all. In addition, as a public company, we will continue to incur significant legal, accounting and other expenses that we did not incur as a private company. Accordingly, we cannot assure you that we will achieve profitability in the future or that, if we do become profitable, we will sustain profitability. Our failure to achieve and sustain profitability in the future could cause the market price of our common stock to decline.

Our business is dependent upon physicians adopting our ZIO Service and if we fail to obtain broad adoption, our business would be adversely affected.

Our success will depend on our ability to educate physicians regarding the benefits of our ZIO Service over existing products and services, such as Holter monitors and event monitors, and to persuade them to prescribe the ZIO Service as a first-line diagnostic product for their patients. We do not know if the ZIO Service will be successful over the long term and market acceptance may be hindered if physicians are not presented with compelling data demonstrating the efficacy of our service compared to alternative technologies. Any studies we, or third parties which we sponsor, may conduct comparing our ZIO Service with alternative technologies will be expensive, time consuming and may not yield positive results. Additionally, adoption will be directly influenced by a number of financial factors, including the ability of providers to obtain sufficient reimbursement from third-party commercial payors, and the Centers for Medicare & Medicaid Services, or CMS, for the professional services they provide in applying the ZIO Patch and analyzing the ZIO Report. The efficacy, safety, performance and cost-effectiveness of our ZIO Service, on a stand-alone basis and relative to competing services, will determine the availability and level of reimbursement received by us and providers. Some payors do not have pricing contracts with us setting forth the ZIO Service reimbursement rates for us and providers. Physicians may be reluctant to prescribe the ZIO Service to patients covered by such non-contracted insurance policies because of the uncertainty surrounding reimbursement rates and the administrative burden of interfacing with patients to answer their questions and support their efforts to obtain adequate reimbursement for the ZIO Service. If physicians do not adopt and prescribe our ZIO Service, our revenue will not increase and our financial condition will suffer as a result.

Our revenue relies substantially on the ZIO Service, which is currently our only product offering. If the ZIO Service or future product offerings fail to gain, or lose, market acceptance, our business will suffer.

Our current revenue is dependent on prescriptions of the ZIO Service, and we expect that sales of the ZIO Service will account for substantially all of our revenue through at least 2017. We are in various stages of research and development for other diagnostic solutions and new indications for our technology and the ZIO Service; however, there can be no assurance that we will be able to successfully develop and commercialize any new products or services. Any new products may not be accepted by physicians or may merely replace revenue generated by our ZIO Service and not generate additional revenue. If we have difficulty launching new products, our reputation may be harmed and our financial results adversely affected. In order to substantially increase our revenue, we will need to target physicians other than cardiologists, such as emergency room doctors, primary care physicians and other physicians with whom we have had little contact and may require a different type of selling effort. If we are unable to increase prescriptions of the ZIO Service, expand reimbursement for the ZIO Service, or successfully develop and commercialize new products and services, our revenue and our ability to achieve and sustain profitability would be impaired.

Our limited operating history makes it difficult to evaluate our current business and future prospects

We first commercialized the ZIO Service in the first quarter of 2011 and do not have a long history operating as a commercial company. As a result, our operating results are not predictable. Since 2011, our revenue has been derived, and we expect it to continue to be derived, substantially from sales of the ZIO Service and its predecessor products. Because of its recent commercial introduction, the ZIO Service has limited product and brand recognition. In addition, demand for our services may decline or may not increase as quickly as we expect. Failure of the ZIO Service to significantly penetrate current or new markets would harm our business, financial condition and results of operations.

Our quarterly and annual results may fluctuate significantly and may not fully reflect the underlying performance of our business.

Our quarterly and annual results of operations, including our revenue, profitability and cash flow, may vary significantly in the future and period-to-period comparisons of our operating results may not be meaningful. Accordingly, the results of any one quarter or period should not be relied upon as an indication of future performance. Our quarterly and annual financial results may fluctuate as a result of a variety of factors, many of which are outside our control and, as a result, may not fully reflect the underlying performance of our business. Fluctuation in quarterly and annual results may decrease the value of our common stock. Factors that may cause fluctuations in our quarterly and annual results include, without limitation:

- market acceptance of the ZIO Service
- our ability to get payors under contract at acceptable reimbursement rates
- the availability of reimbursement for the ZIO Service through government programs
- our ability to attract new customers and improve our business with existing customers
- results of our clinical trials and publication of studies by us, competitors or third parties
- the timing and success of new product introductions by us or our competitors or any other change in the competitive dynamics of our industry, including consolidation among competitors, customers or strategic partners
- our revenue recognition policy, which generally provides that we recognize revenue only upon the earlier of notification of the payor benefits allowed or when payment is received
- the amount and timing of costs and expenses related to the maintenance and expansion of our business and operations
- changes in our pricing policies or those of our competitors
- general economic, industry and market conditions
- the regulatory environment
- expenses associated with unforeseen product quality issues
- timing of physician prescriptions and demand for our ZIO Service
- the hiring, training and retention of key employees, including our ability to expand our sales team

- litigation or other claims filed against us or by us for intellectual property infringement or otherwise
- our ability to obtain additional financing as necessary
- advances and trends in new technologies and industry standards

Because our quarterly results may fluctuate, period-to-period comparisons may not be the best indication of the underlying results of our business and should only be relied upon as one factor in determining how our business is performing.

We have noticed seasonality in the use of our ZIO Service which, along with other factors such as severe weather, may cause quarterly fluctuations in our revenue.

During the summer months and the holiday season, we have observed that the use of our ZIO Service decreases, which reduces our revenue during those periods. We believe that the decrease in demand may result from physicians or their patients taking vacation. Severe weather conditions or natural disasters also may hamper or otherwise restrict when patients seeking diagnostic services such as the ZIO Service visit prescribing physicians. Similarly, we generally experience some effects of seasonality due to the renewal of insurance deductibles at the beginning of the calendar year. These factors may cause our results of operations to vary from quarter to quarter

Reimbursement by CMS is highly regulated and subject to change; our failure to comply with applicable regulations could result in decreased revenue and may subject us to penalties or have an adverse impact on our business.

For the nine months ended September 30, 2017, we received approximately 28% of our revenue from reimbursement for our ZIO Service by CMS. CMS imposes extensive and detailed requirements on manufacturers of medical devices and providers of medical services, including but not limited to, rules that govern how we structure our relationships with physicians, how and when we submit reimbursement claims, how we operate our monitoring facilities and how and where we provide our monitoring solutions. Our failure to comply with applicable CMS rules could result in a discontinuation of our reimbursement under the CMS payment programs, our being required to return funds already paid to us, civil monetary penalties, criminal penalties and/or exclusion from the CMS programs. In addition, regional Medicare Administrative Contractors, or MACs, change from time to time, which may result in changes to our reimbursement rates, increased administrative burden and reimbursement delay.

Changes in public health insurance coverage and CMS reimbursement rates for the ZIO Service could affect the adoption of the ZIO Service and our future revenue.

Government payors may change their coverage and reimbursement policies, as well as payment amounts, in a way that would prevent or limit reimbursement for our ZIO Service, which would significantly harm our business. For example, government and other third-party payors require us to identify the service for which we are seeking reimbursement by using a Current Procedural Terminology, or CPT, code set maintained by the American Medical Association. We have secured CPT codes specific to our category of diagnostic monitoring through 2022, but these codes are not exclusive to the ZIO Service and our competitors' products and services may also qualify for reimbursement under these codes. To the extent one of our competitors or a future competitor produces a product or service at a less expensive price, it may cause the reimbursement under these CPT codes to decrease. In addition, third-party payors often reimburse based on CMS reimbursement rates. To the extent CMS reduces its reimbursement rates for the ZIO Service, third-party payors may reduce the rates at which they reimburse the ZIO Service, which could adversely affect our revenue.

Determinations of which products or services will be reimbursed under Medicare can be developed at the national level through a national coverage determination, or an NCD, by CMS, or at the local level through a local coverage determination, or an LCD, by one or more of the regional Medicare Administrative Contractors, or MACs, which are private contractors that process and pay claims on behalf of CMS for different regions. In the absence of an NCD, as is the case with the ZIO Service, the MAC with jurisdiction over a specific geographic region will have the discretion to make an LCD and determine the fee schedule and reimbursement rate within the region, and regional LCDs may not always be consistent in their determinations. We have in the past been, and in the future may be, required to respond to potential changes in reimbursement rates for our products. Reductions in reimbursement rates, if enacted, could have a material adverse effect on our business. Further, a reduction in coverage by Medicare could cause some commercial third-party payers to implement similar reductions in their coverage or level of reimbursement of the ZIO Service. Given the evolving nature of the healthcare industry and on-going healthcare cost reforms, we are and will continue to be subject to changes in the level of Medicare coverage for our products, and unfavorable coverage determinations at the national or local level could adversely affect our business and results of operations.

Controls imposed by CMS and commercial third-party payors designed to reduce costs, commonly referred to as “utilization review”, may affect our operations. Federal law contains numerous provisions designed to ensure that services rendered to CMS patients meet professionally recognized standards and are medically necessary, appropriate for the specific patient and cost-effective. These provisions include a requirement that a sampling of CMS patients must be reviewed by quality improvement organizations, which review the appropriateness of product prescriptions, the quality of care provided, and the appropriateness of reimbursement costs. Quality improvement organizations may deny payment for services or assess fines and also have the authority to recommend to the U.S. Department of Health and Human Services, or DHHS, that a provider which is in substantial noncompliance with the standards of the quality improvement organization be excluded from participation in the Medicare program. The Patient Protection and Affordable Care Act, as amended by the Health Care and Education Affordability Reconciliation Act, or Affordable Care Act, potentially expands the use of prepayment review by Medicare contractors by eliminating statutory restrictions on their use, and, as a result, efforts to impose more stringent cost controls are expected to continue. Utilization review is also a requirement of most non-governmental managed care organizations and other third-party payors. To date these controls have not had a significant effect on our operations, but significant limits on the scope of services reimbursed and on reimbursement rates and fees could have a material, adverse effect on our business, financial position and results of operations in the future.

Also, healthcare reform legislation or regulation may be proposed or enacted in the future that may adversely affect such policies and amounts. Changes in the healthcare industry directed at controlling healthcare costs or perceived over-utilization of ambulatory cardiac monitoring products and services could reduce the volume of ZIO Services prescribed by physicians. If more healthcare cost controls are broadly instituted throughout the healthcare industry, the volume of cardiac monitoring solutions prescribed could decrease, resulting in pricing pressure and declining demand for our ZIO Service. We cannot predict whether and to what extent existing coverage and reimbursement will continue to be available. If physicians, hospitals and clinics are unable to obtain adequate coverage and government reimbursement of the ZIO Service, they are significantly less likely to use the ZIO Service and our business and operating results would be harmed.

The current presidential administration and Congress are expected to attempt to make sweeping changes to the current health care laws. It is uncertain how modification or repeal of any of the provisions of the Affordable Care Act, including as a result of current and future executive orders and legislative actions, will impact us and the medical device industry as a whole. Any changes to, or repeal of, the Affordable Care Act may have a material adverse effect on our results of operations. We cannot predict what other health care programs and regulations will ultimately be implemented at the federal or state level or the effect of any future legislation or regulation in the United States may have on our business.

If third-party commercial payors do not provide any or adequate reimbursement, rescind or modify their reimbursement policies or delay payments for our products, including the ZIO Service, or if we are unable to successfully negotiate reimbursement contracts, our commercial success could be compromised.

We receive a substantial portion of our revenue from third-party private commercial payors, such as medical insurance companies. These commercial payors may reimburse our products, including the ZIO Service, at inadequate rates, suspend or discontinue reimbursement at any time or require or increase co-payments from patients. Any such actions could have a negative effect on our revenue and the revenue of providers prescribing our products. Physicians may not prescribe our products unless payors reimburse a substantial portion of the submitted costs, including the physician’s, hospital’s or clinic’s charges related to the application of certain products, including the ZIO Patch and the interpretation of results which may inform a diagnosis. Additionally, certain payors may require that physicians prescribe a Holter monitor as the first-line monitoring option. There is significant uncertainty concerning third-party reimbursement of any new product or service until a contracted rate is established. Reimbursement by a commercial payor may depend on a number of factors, including a payor’s determination that the prescribed service is:

- not experimental or investigational
- appropriate for the specific patient
- cost effective
- supported by peer-reviewed publications
- advocated by key opinion leaders

Since each payor makes its own decision as to whether to establish a policy concerning reimbursement or enter into a contract with us to set the price of reimbursement, seeking reimbursement on a payor-by-payor basis is a time consuming and costly process to which we dedicate substantial resources. If we do not dedicate sufficient resources to establishing contracts with third-party commercial payors, the amount that we are reimbursed for our products may decline, our revenue may become less predictable, and we will need to expend more efforts on a claim-by-claim basis to obtain reimbursement for our products.

A substantial portion of our revenue is derived from third-party commercial payors who have pricing contracts with us, which means that the payor has agreed to a defined reimbursement rate for our products. These contracts provide a high degree of certainty to us, physicians and hospitals and clinics with respect to the rate at which our products will be reimbursed. These contracts also impose a number of obligations regarding billing and other matters, and our noncompliance with a material term of such contracts may result in termination of the contract and loss of any associated revenue. A portion of our revenue is derived from third-party commercial payors without such contracts in place. Without a contracted rate, reimbursement claims for our products are often denied upon submission, and we or our billing partner, XIFIN, Inc., or XIFIN, must appeal the denial. The appeals process is time-consuming and expensive, and may not result in full or any payment. In cases where there is no contracted rate for reimbursement, it may be more difficult for us to acquire new accounts with physicians, hospitals and clinics. In addition, in the absence of a contracted rate, there is typically a greater out-of-network, co-insurance or co-payment requirement which may result in payment delays or decreased likelihood of full collection. In some cases involving non-contracted insurance companies, we may not be able to collect any amount or only a portion of the invoiced amount for our products.

We expect to continue to dedicate significant resources to establishing pricing contracts with non-contracted insurance companies; however, we can provide no assurance that we will be successful in obtaining such pricing contracts or that such pricing contracts will contain reimbursement for our products at rates that are favorable to us. If we fail to establish these contracts, we will be able to recognize revenue only upon the earlier of notification of payor benefits allowed or when payment is received. In addition, XIFIN may need to expend significant resources obtaining reimbursement on a claim-by-claim basis and in adjudicating claims which are denied altogether or not reimbursed at acceptable rates. We currently pay XIFIN a percentage of the amounts it collects on our behalf and this percentage may increase in the future if it needs to expend more resources in adjudicating such claims. We sometimes informally engage physicians, hospitals and clinics to help establish contracts with third-party payors who insure their patients. We cannot provide any assurance that such physicians, hospitals and clinics will continue to help us establish contracts in the future. If we fail to establish contracts with more third-party payors it may adversely affect our ability to increase our revenue. In addition, a failure to enter into contracts could affect a physician's willingness to prescribe our products because of the administrative work involved in interacting with patients to answer their questions and help them obtain reimbursement for our products. If physicians are unwilling to prescribe our products due to the lack of certainty and administrative work involved with patients covered by non-contracted insurance companies, or patients covered by non-contracted insurance companies are unwilling to risk that their insurance may charge additional out-of-pocket fees, our revenue could decline or fail to increase.

Our continued rapid growth could strain our personnel resources and infrastructure, and if we are unable to manage the anticipated growth of our business, our future revenue and operating results may be harmed.

We have experienced rapid growth in our headcount and in our operations. Any growth that we experience in the future will provide challenges to our organization, requiring us to expand our sales personnel and manufacturing operations and general and administrative infrastructure. In addition to the need to scale our clinical operations capacity, future growth will impose significant added responsibilities on management, including the need to identify, recruit, train and integrate additional employees. Rapid expansion in personnel could mean that less experienced people manufacture our ZIO Patch, market and sell our ZIO Service and analyze the data to produce ZIO Reports, which could result in inefficiencies and unanticipated costs, reduced quality in our ZIO Reports and disruptions to our operations. As we seek to gain greater efficiency, we may expand the automated portion of our ZIO Service and require productivity improvements from our certified cardiac technicians. Such improvements could compromise the quality of our ZIO Reports. In addition, rapid and significant growth may strain our administrative and operational infrastructure. Our ability to manage our business and growth will require us to continue to improve our operational, financial and management controls, reporting systems and procedures. We recently installed a new Enterprise Resource Planning, or ERP, platform, which is critical to our ability to track our claims processing and the delivery of our ZIO Reports to physicians, as well as to support our financial reporting systems. The time and resources required to optimize these systems are uncertain, and failure to complete optimization in a timely and efficient manner could adversely affect our operations. If we are unable to manage our growth effectively, it may be difficult for us to execute our business strategy and our business could be harmed.

If we are unable to support demand for the ZIO Service or any of our future products or services, our business could suffer.

As demand for the ZIO Service or any of our future products or services increases, we will need to continue to scale our manufacturing capacity and algorithm processing technology, expand customer service, billing and systems processes and enhance our internal quality assurance program. We will also need additional certified cardiac technicians and other personnel to process higher volumes of data. We cannot assure you that any increases in scale, related improvements and quality assurance will be successfully implemented or that appropriate personnel will be available to facilitate growth of our business. Failure to implement necessary procedures, transition to new processes or hire the necessary personnel could result in higher costs of processing data or inability to meet increased demand. There can be no assurance that we will be able to perform our data analysis on a timely basis at a level consistent with demand, quality standards and physician expectations. If we encounter difficulty meeting market demand, quality standards or physician expectations, our reputation could be harmed and our future prospects and business could suffer.

We plan to introduce new products and services and our business will be harmed if we are not successful in selling these new products and services to our existing customers and new customers

We recently received FDA clearance for our ZIO AT ECG Monitoring System, which is designed to provide timely transmission of data during the wear period. We refer to both the ZIO AT ECG Monitoring System, or ZIO AT Patch, and ZIO XT Patch as the ZIO Patch in this Quarterly Report on 10-Q, unless otherwise specified. We do not yet know whether the ZIO AT ECG Monitoring System or any other new products and services will be well received and broadly adopted by physicians and their patients or whether sales will be sufficient for us to offset the costs of development, implementation, support, operation, sales and marketing. Although we have performed extensive testing of our new products and services, their broad-based implementation may require more support than we anticipate, which would further increase our expenses. Additionally, new products and services may subject us to additional risks of product performance, customer complaints and litigation. If sales of our new products and services are lower than we expect, or if we expend additional resources to fix unforeseen problems and develop modifications, our operating margins are likely to decrease.

We have limited experience manufacturing the ZIO Patch in commercial quantities and providing services on a broad scale, which could harm our business.

Because we have only limited experience in manufacturing the ZIO Patch in commercial quantities and providing services on a broad scale, we may encounter production or service delays or shortfalls. Such production or service delays or shortfalls may be caused by many factors, including the following:

- we intend to continue to expand our manufacturing capacity, and our production processes may have to change to accommodate this growth
- key components of the ZIO Patch are provided by a single supplier or limited number of suppliers, and we do not maintain large inventory levels of these components; if we experience a shortage or quality issues in any of these components, we would need to identify and qualify new supply sources, which could increase our expenses and result in manufacturing delays
- we may experience a delay in completing validation and verification testing for new controlled environment rooms at our manufacturing facilities
- we are subject to state and federal regulations, including the FDA's Quality System Regulation, or the QSR, and the European Union's, or EU's, Medical Device Directive, or MDD, for both the manufacture of the ZIO Patch and the provision of the ZIO Service, noncompliance with which could cause an interruption in our manufacturing, distribution and services
- to increase our manufacturing output significantly and scale our services, we will have to attract and retain qualified employees for our operations

If we are unable to keep up with demand for the ZIO Service, our revenue could be impaired, market acceptance for the ZIO Service could be harmed and physicians may instead prescribe our competitors' products and services. Our inability to successfully manufacture the ZIO Patch in sufficient quantities, or provide the ZIO Service in a timely manner, would materially harm our business.

Our manufacturing facilities and processes and those of our third-party suppliers are subject to unannounced FDA, state, and Notified Body regulatory inspections for compliance with the QSR and MDD requirements. Developing and maintaining a compliant quality system is time consuming and expensive. Failure to maintain compliance with, or not fully complying with the requirements of the FDA and state regulators could result in enforcement actions against us or our third-party suppliers, which could include the issuance of warning letters, adverse publicity, seizures, prohibitions on product sales, recalls and civil and criminal penalties, any one of which could significantly impact our manufacturing supply and provision of services and impair our financial results.

We depend on third-party vendors to manufacture some of our components, which could make us vulnerable to supply shortages and price fluctuations that could harm our business.

We rely on third-party vendors for components used in our ZIO Patch. Our reliance on third-party vendors subjects us to a number of risks, including:

- inability to obtain adequate supply in a timely manner or on commercially reasonable terms
- interruption of supply resulting from modifications to, or discontinuation of, a supplier's operations

- production delays related to the evaluation and testing of products from alternative suppliers and corresponding regulatory qualifications
- inability of the manufacturer or supplier to comply with the QSR, MDD and state regulatory authorities
- delays in product shipments resulting from uncorrected defects, reliability issues, or a supplier's failure to consistently produce quality components
- price fluctuations due to a lack of long-term supply arrangements with our suppliers for key components
- inability to control the quality of products manufactured by third parties
- delays in delivery by our suppliers due to changes in demand from us or their other customers

Any significant delay or interruption in the supply of components or sub-assemblies, or our inability to obtain substitute components, sub-assemblies or materials from alternate sources at acceptable prices and in a timely manner could impair our ability to meet the demand for our ZIO Service and harm our business.

We rely on single suppliers for some of the materials used in our products, and if any of those suppliers are unable or unwilling to produce these materials or supply them in the quantities that we need at the quality we require, we may not be able to find replacements or transition to alternative suppliers before our business is materially impacted.

We rely on single suppliers for the supply of our adhesive substrate, disposable plastic housings, instruments and other materials that we use to manufacture our ZIO Patch. These components and materials are critical and there are relatively few alternative sources of supply. We have not qualified additional suppliers for some of these components and materials and we do not carry a significant inventory of these items. While we believe that alternative sources of supply may be available, we cannot be certain whether they will be available if and when we need them and that any alternative suppliers would be able to provide the quantity and quality of components and materials that we would need to manufacture our ZIO Patch if our existing suppliers were unable to satisfy our supply requirements. To utilize other supply sources, we would need to identify and qualify new suppliers to our quality standards, which could result in manufacturing delays and increase our expenses. Any supply interruption could limit our ability to manufacture our products and could therefore harm our business, financial condition and results of operations. If our current suppliers and any alternative suppliers do not provide us with the materials we need to manufacture our products or perform our services, if the materials do not meet our quality specifications, or if we cannot obtain acceptable substitute materials, an interruption in our ZIO Service could occur. Any such interruption may significantly affect our future revenue and harm our relations and reputation with physicians, hospitals, clinics and patients.

If our manufacturing facility becomes damaged or inoperable, or if we are required to vacate a facility, we may be unable to manufacture the ZIO Patch or we may experience delays in production or an increase in costs which could adversely affect our results of operations.

We currently manufacture and assemble the ZIO Patch in only one location. Our products are comprised of components sourced from a variety of contract manufacturers, with final assembly completed at our facility in Cypress, California. Our facility and equipment, or those of our suppliers, could be harmed or rendered inoperable by natural or man-made disasters, including fire, earthquake, terrorism, flooding and power outages. Any of these may render it difficult or impossible for us to manufacture products for some period of time. If our Cypress facility is inoperable for even a short period of time, the inability to manufacture the ZIO Patch, and the interruption in research and development of any future products, may result in harm to our reputation, increased costs, the loss of orders and lower revenue. Furthermore, it could be costly and time consuming to repair or replace our facilities and the equipment we use to perform our research and development work and manufacture our products.

If we fail to increase our sales and marketing capabilities and develop broad brand awareness in a cost effective manner, our growth will be impeded and our business may suffer.

We plan to continue to expand and optimize our sales and marketing infrastructure in order to increase our prescribing physician base and our business. Identifying and recruiting qualified personnel and training them in the application of the ZIO Service, on applicable federal and state laws and regulations and on our internal policies and procedures requires significant time, expense and attention. It often takes several months or more before a sales representative is fully trained and productive. Our business may be harmed if our efforts to expand and train our sales force do not generate a corresponding increase in revenue. In particular, if we are unable to hire, develop and retain talented sales personnel or if new sales personnel are unable to achieve desired productivity levels in a reasonable period of time, we may not be able to realize the expected benefits of this investment or increase our revenue.

Our ability to increase our customer base and achieve broader market acceptance of our products will depend to a significant extent on our ability to expand our marketing efforts. We plan to dedicate significant resources to our marketing programs. Our business may be harmed if our marketing efforts and expenditures do not generate a corresponding increase in revenue.

In addition, we believe that developing and maintaining broad awareness of our brand in a cost effective manner is critical to achieving broad acceptance of the ZIO Service and penetrating new accounts. Brand promotion activities may not generate patient or physician awareness or increase revenue, and even if they do, any increase in revenue may not offset the costs and expenses we incur in building our brand. If we fail to successfully promote, maintain and protect our brand, we may fail to attract or retain the physician acceptance necessary to realize a sufficient return on our brand building efforts, or to achieve the level of brand awareness that is critical for broad adoption of the ZIO Service.

Billing for our ZIO Service is complex, and we must dedicate substantial time and resources to the billing process.

Billing for independent diagnostic testing facility, or IDTF, services is complex, time consuming and expensive. Depending on the billing arrangement and applicable law, we bill several types of payors, including CMS, third-party commercial payors, institutions and patients, which may have different billing requirements procedures or expectations. We also must bill patient co-payments, co-insurance and deductibles. We face risk in our collection efforts, including potential write-offs of doubtful accounts and long collection cycles, which could adversely affect our business, financial condition and results of operations.

Several factors make the billing and collection process uncertain, including:

- differences between the submitted price for our ZIO Service and the reimbursement rates of payors
- compliance with complex federal and state regulations related to billing CMS
- differences in coverage among payors and the effect of patient co-payments, co-insurance and deductibles
- differences in information and billing requirements among payors
- incorrect or missing patient history, indications or billing information

Additionally, our billing activities require us to implement compliance procedures and oversight, train and monitor our employees and undertake internal review procedures to evaluate compliance with applicable laws, regulations and internal policies. Payors also conduct audits to evaluate claims, which may add further cost and uncertainty to the billing process. These billing complexities, and the related uncertainty in obtaining payment for our ZIO Service, could negatively affect our revenue and cash flow, our ability to achieve profitability, and the consistency and comparability of our results of operations.

The operation of our call centers and monitoring facilities is subject to rules and regulations governing IDTFs; failure to comply with these rules could prevent us from receiving reimbursement from CMS and some commercial payors.

In order to get reimbursed by CMS, we must establish an IDTF. IDTFs are defined by CMS as entities independent of a hospital or physician's office in which diagnostic tests are performed by licensed or certified nonphysician personnel under appropriate physician supervision. Our IDTFs are staffed by certified cardiac technicians, who are overseen by a medical director who reviews the accuracy of the data we curate and from which we prepare reports. The existence of an IDTF allows us to bill a government payor for the ZIO Service through one or more MACs, such as Novitas Solutions, Noridian Healthcare Solutions and Palmetto GBA. MACs are companies that operate on behalf of the federal government to process claims for reimbursement and allow us to obtain reimbursement for our ZIO Service at CMS defined rates. Certification as an IDTF requires that we follow strict regulations governing how the center operates, such as requirements regarding the experience and certifications of the certified cardiac technicians. In addition, many commercial payors require our IDTFs to maintain accreditation and certification with the Joint Commission of American Hospitals. To do so we must demonstrate a specified quality standard and are subject to routine inspection and audits. These rules and regulations vary from location to location and are subject to change. If they change, we may have to change the operating procedures at our IDTFs, which could increase our costs significantly. If we fail to obtain and maintain IDTF certification, our ZIO Service may no longer be reimbursed by CMS and some commercial payors, which would have a material adverse impact on our business.

In 2017, we have recognized approximately twelve percent of our revenue from non-contracted third-party payors, and as a result, our quarterly operating results are difficult to predict.

If we do not have a contracted rate with a payor, or have an insufficient or unpredictable history of collections, we recognize revenue only upon the earlier of notification of the payor benefits allowed or when payment is received. We have limited visibility as to when we will receive payment for our ZIO Service with non-contracted payors and we or XIFIN must appeal any negative payment decisions, which often delay collections further. Additionally, a portion of the revenue from non-contracted payors is received from patient co-pays, which we may not receive for several months following delivery of service or at all. There is currently no predictable payment history for direct-billed non-contracted payors, and thus because a reasonable estimate of reimbursement cannot be made, we recognize revenue from such accounts only when we are notified of payment or it is received. Fluctuations in revenue may make it difficult for us, research analysts and investors to accurately forecast our revenue and operating results or to assess our actual performance. When management's judgement indicates a reasonable estimate of reimbursement can be made we will begin recognizing the revenue on an accrual basis upon delivery. If our revenue or operating results fall below expectations, the price of our common stock would likely decline.

We rely on a third-party billing company, XIFIN, to transmit and pursue claims with payors. A delay in transmitting or pursuing claims could have an adverse effect on our revenue.

While we manage the overall processing of claims, we rely on XIFIN, Inc. to transmit substantially all of our claims to payors, and pursue most claim denials. If claims for our ZIO Service are not submitted to payors on a timely basis, not properly adjudicated upon a denial, or if we are required to switch to a different claims processor, we may experience delays in our ability to process receipt of payments from payors, which would have an adverse effect on our revenue and our business.

The market for ambulatory cardiac monitoring solutions is highly competitive. If our competitors are able to develop or market monitoring products and services that are more effective, or gain greater acceptance in the marketplace, than any products and services we develop, our commercial opportunities will be reduced or eliminated.

The market for ambulatory cardiac monitoring products and services is evolving rapidly and becoming increasingly competitive. Our ZIO Service competes with a variety of products and services that provide alternatives for ambulatory cardiac monitoring, including Holter monitors and mobile cardiac telemetry monitors. Our industry is highly fragmented and characterized by a small number of large manufacturers and a large number of smaller regional service providers. These third parties compete with us in marketing to payors and prescribing physicians, recruiting and retaining qualified personnel, acquiring technology and developing products and services that compete with the ZIO Service. Our ability to compete effectively depends on our ability to distinguish our company and the ZIO Service from our competitors and their products, and includes such factors as:

- safety and efficacy
- acute and long term outcomes
- ease of use
- price
- physician, hospital and clinic acceptance
- third-party reimbursement

Large competitors in the ambulatory cardiac market include companies that sell standard Holter monitor equipment such as GE Healthcare, Philips Healthcare, Mortara Instrument, Inc., Spacelabs Healthcare, Inc. and Welch Allyn Holdings, Inc., which was acquired by Hill-Rom Holdings, Inc. Additional competitors who offer Holter and event monitors, and also function as service providers, include BioTelemetry, Inc. and Medtronic plc. These companies have also developed other patch-based mobile cardiac monitors that have recently received FDA and foreign regulatory clearances. For example, LifeWatch AG, which was subsequently acquired by BioTelemetry in July 2017, received FDA clearance and CE mark for its mobile cardiac telemetry monitoring patch in January 2016 and December 2015, respectively. In addition, in July 2016, BioTelemetry, Inc. announced FDA clearance for its own patch-based mobile cardiac telemetry monitor. There are also several small start-up companies trying to compete in the patch-based cardiac monitoring space. We have seen a trend in the market for large medical device companies to acquire, invest in or form alliances with these smaller companies in order to diversify their product offerings and participate in the digital health space. Two examples of this are Medtronic plc's 2014 acquisition of Corventis, Inc. and Boston Scientific Corporation's 2015 equity investment and sales cooperation agreement with Preventice Solutions, Inc., which was formerly named eCardio Diagnostics, LLC. Future competition could come from makers of wearable fitness products or large information technology companies focused on improving healthcare. These competitors and potential competitors may introduce new products that compete with our ZIO Service. Many of our competitors and potential competitors have significantly greater financial and other resources than we do and have well-established reputations, broader product offerings, and worldwide distribution channels that are significantly larger and more effective than ours. If our competitors and potential competitors are better able to develop new ambulatory cardiac monitoring solutions than us, or develop more effective or less expensive cardiac monitoring solutions, they may render our current ZIO Service obsolete or non-competitive. Competitors may also be able to deploy larger or more effective sales and marketing resources than we currently have. Competition with these companies could result in price cutting, reduced profit margins and loss of market share, any of which would harm our business, financial condition and results of operations.

Our ability to compete depends on our ability to innovate successfully.

The market for medical devices, including the ambulatory cardiac monitoring segment, is competitive, dynamic, and marked by rapid and substantial technological development and product innovation. There are few barriers that would prevent new entrants or existing competitors from developing products that compete directly with ours. Demand for the ZIO Service and future related products or services could be diminished by equivalent or superior products and technologies offered by competitors. If we are unable to innovate successfully, our products and services could become obsolete and our revenue would decline as our customers purchase our competitors' products and services.

In order to remain competitive, we must continue to develop new product offerings and enhancements to the ZIO Service. We can provide no assurance that we will be successful in monetizing our electrocardiogram, or ECG, database, expanding the indications for our ZIO Service, developing new products or commercializing them in ways that achieve market acceptance. In addition, if we develop new products, sales of those products may reduce revenue generated from our existing products. Maintaining adequate research and development personnel and resources to meet the demands of the market is essential. If we are unable to develop new products, applications or features or improve our algorithms due to constraints, such as insufficient cash resources, high employee turnover, inability to hire personnel with sufficient technical skills or a lack of other research and development resources, we may not be able to maintain our competitive position compared to other companies. Furthermore, many of our competitors devote a considerably greater amount of funds to their research and development programs than we do, and those that do not may be acquired by larger companies that would allocate greater resources to research and development programs. Our failure or inability to devote adequate research and development resources or compete effectively with the research and development programs of our competitors could harm our business.

The continuing clinical acceptance of the ZIO Service depends upon maintaining strong working relationships with physicians.

The development, marketing, and sale of the ZIO Service depends upon our ability to maintain strong working relationships with physicians and other key opinion leaders. We rely on these professionals' knowledge and experience for the development, marketing and sale of our products. Among other things, physicians assist us in clinical trials and product development matters and provide public presentations at trade conferences regarding the ZIO Service. If we cannot maintain our strong working relationships with these professionals and continue to receive their advice and input, the development and marketing of the ZIO Service could suffer, which could harm our business, financial condition and results of operations.

The medical device industry's relationship with physicians is under increasing scrutiny by the Health and Human Services Office of the Inspector General, or OIG, the Department of Justice, or DOJ, state attorneys general, and other foreign and domestic government agencies. Our failure to comply with laws, rules and regulations governing our relationships with physicians, or an investigation into our compliance by the OIG, DOJ, state attorneys general or other government agencies, could significantly harm our business.

We have a significant amount of debt, which may affect our ability to operate our business and secure additional financing in the future.

As of September 30, 2017, we had \$34.4 million in principal and interest outstanding under our credit facilities consisting of our loan agreements with Pharmakon and SVB and a promissory note issued to California HealthCare Foundation. We must make significant annual debt payments under the loan agreements and the promissory note, which will divert resources from other activities. Our debt with Pharmakon and SVB is collateralized by substantially all of our assets and contains customary financial and operating covenants limiting our ability to, among other things, dispose of assets, undergo a change in control, merge or consolidate, enter into certain transactions with affiliates, make acquisitions, incur debt, incur liens, pay dividends, repurchase stock and make investments, in each case subject to certain exceptions. The covenants in these loan agreements, the promissory note and the note purchase agreement pursuant to which the promissory note was issued, as well as in any future financing agreements into which we may enter, may restrict our ability to finance our operations and engage in, expand or otherwise pursue our business activities and strategies. Our ability to comply with these covenants may be affected by events beyond our control and future breaches of any of these covenants could result in a default under the loan agreements, the promissory note and the note purchase agreement. If not waived, future defaults could cause all of the outstanding indebtedness under the loan agreements and the promissory note to become immediately due and payable and terminate commitments to extend further credit. If we do not have or are unable to generate sufficient cash available to repay our debt obligations when they become due and payable, either upon maturity or in the event of a default, we may not be able to obtain additional debt or equity financing on favorable terms, if at all, which may negatively impact our ability to operate and continue our business as a going concern.

We depend on our senior management team and the loss of one or more key employees or an inability to attract and retain highly skilled employees could harm our business.

Our success depends largely on the continued services of key members of our executive management team and others in key management positions. For example, the services of Kevin M. King, our Chief Executive Officer, and Matthew C. Garrett, our Chief Financial Officer, are essential to formulating and executing on corporate strategy and to ensuring the continued operations and integrity of financial reporting within our company. In addition, the services provided by David A. Vort, our Executive Vice President of Sales, are critical to the growth that we have experienced in the sales of our ZIO Service. Our employees may terminate their employment with us at any time. If we lose one or more key employees, we may experience difficulties in competing effectively, developing our technologies and implementing our business strategy. We do not currently maintain key person life insurance policies on these or any of our employees.

In addition, our research and development programs and clinical operations depend on our ability to attract and retain highly skilled engineers and certified cardiac technicians. We may not be able to attract or retain qualified engineers and certified cardiac technicians in the future due to the competition for qualified personnel. We have from time to time experienced, and we expect to continue to experience, difficulty in hiring and retaining employees with appropriate qualifications. Many of the companies with which we compete for experienced personnel have greater resources than us. If we hire employees from competitors or other companies, their former employers may attempt to assert that these employees or we have breached legal obligations, resulting in a diversion of our time and resources and, potentially, damages. In addition, job candidates and existing employees, particularly in the San Francisco Bay Area, often consider the value of the stock awards they receive in connection with their employment. If the perceived value of our stock awards declines, either because we are a public company or otherwise, it may harm our ability to recruit and retain highly skilled employees. If we fail to attract new personnel or fail to retain and motivate our current personnel, our business and future growth prospects would be harmed.

We added two new directors to our board of directors in July 2017, which may lead to changes in our operations.

Two new directors were elected to our board of directors on July 17, 2017. One of these directors, Bruce G. Bodaken, served as Chairman and Chief Executive Officer of a payor, and the other director, Dr. Ralph Snyderman, served as founding Chief Executive Officer and President of a provider. Another of our directors has served on our board of directors for less than 18 months. Because of these recent additions, our board of directors has not worked together as a group for an extended period of time. This change in the composition of our board of directors from directors affiliated with financial investors to directors with industry experience may lead to changes in our operations as these new directors analyze our business and contribute to the formulation of business strategies and objectives. If our board of directors does not align on the business strategies and objectives of our company, our operating results could be adversely affected.

International expansion of our business exposes us to market, regulatory, political, operational, financial and economic risks associated with doing business outside of the United States.

Our business strategy includes international expansion. Doing business internationally involves a number of risks, including:

- multiple, conflicting and changing laws and regulations such as tax laws, privacy laws, export and import restrictions, employment laws, regulatory requirements and other governmental approvals, permits and licenses
- obtaining regulatory approvals where required for the sale of our products and services in various countries
- requirements to maintain data and the processing of that data on servers located within such countries
- complexities associated with managing multiple payor reimbursement regimes, government payors or patient self-pay systems
- logistics and regulations associated with shipping and returning ZIO Patches following use
- limits on our ability to penetrate international markets if we are required to process the ZIO Service locally
- financial risks, such as longer payment cycles, difficulty collecting accounts receivable, the effect of local and regional financial pressures on demand and payment for our products and services and exposure to foreign currency exchange rate fluctuations
- natural disasters, political and economic instability, including wars, terrorism, political unrest, outbreak of disease, boycotts, curtailment of trade and other market restrictions
- regulatory and compliance risks that relate to maintaining accurate information and control over activities subject to regulation under the United States Foreign Corrupt Practices Act of 1977, or FCPA, U.K. Bribery Act of 2010 and comparable laws and regulations in other countries

Any of these factors could significantly harm our future international expansion and operations and, consequently, our revenue and results of operations.

Our relationships with business partners in new international markets may subject us to an increased risk of litigation.

As we expand our business internationally, if we cannot successfully manage the unique challenges presented by international markets and our relationships with new business partners within those markets, our expansion activities may be adversely affected and we may become subject to an increased risk of litigation.

We may become involved in disputes relating to our products, contracts and business relationships. Such disputes include litigation against persons whom we believe have infringed on our intellectual property, infringement litigation filed against us, litigation against a competitor or litigation filed against us by distributors or service providers resulting from a breach of contract or other claim. Any of these disputes may result in substantial costs to us, judgments, settlements and diversion of our management's attention, which could adversely affect our business, financial condition or operating results. There is also a risk of adverse judgments, as the outcome of litigation in foreign jurisdictions can be inherently uncertain.

We could be adversely affected by violations of the U.S. Foreign Corrupt Practices Act, or FCPA, and similar worldwide anti-bribery laws and the ongoing investigation, and outcome of the investigation, by government agencies of possible violations by us of the FCPA could have a material adverse effect on our business.

The FCPA and similar worldwide anti-bribery laws generally prohibit companies and their intermediaries from corruptly providing any benefits to government officials for the purpose of obtaining or retaining business. We are in the process of designing and implementing policies and procedures intended to help ensure compliance with these laws. In the future, we may operate in parts of the world that have experienced governmental corruption to some degree. We cannot assure you that our internal control policies and procedures will protect us from improper acts committed by our employees or agents. Violations of these laws, or allegations of such violations, could disrupt our business and have a material adverse effect on our business and operations.

In addition, the DOJ or other governmental agencies could impose a broad range of civil and criminal sanctions under the FCPA and other laws and regulations including, but not limited to, injunctive relief, disgorgement, fines, penalties, modifications to business practices including the termination or modification of existing business relationships, the imposition of compliance programs and the retention of a monitor to oversee compliance with the FCPA. The imposition of any of these sanctions or remedial measures could have a material adverse effect on our business and results of operations.

Our proprietary data analytics engine may not operate properly, which could damage our reputation, give rise to claims against us or divert application of our resources from other purposes, any of which could harm our business and operating results.

The ECG data that is gathered through the ZIO Patch is curated by algorithms that are part of our ZIO Service and a ZIO Report is delivered to the prescribing physician for diagnosis. The continuous development, maintenance and operation of our machine-learned backend data analytics engine is expensive and complex, and may involve unforeseen difficulties including material performance problems, undetected defects or errors. We may encounter technical obstacles, and it is possible that we may discover additional problems that prevent our proprietary algorithms from operating properly. If our data analytics platform does not function reliably or fails to meet physician or payor expectations in terms of performance, physicians may stop prescribing the ZIO Service and payors could attempt to cancel their contracts with us.

Any unforeseen difficulties we encounter in our existing or new software, cloud-based applications and analytics services, and any failure by us to identify and address them could result in loss of revenue or market share, diversion of development resources, injury to our reputation and increased service and maintenance costs. Correction of defects or errors could prove to be impossible or impracticable. The costs incurred in correcting any defects or errors may be substantial and could adversely affect our operating results.

Provision of the ZIO Service is dependent upon third-party vendors who are subject to disruptions, which could directly or indirectly harm our business and operating results.

The analysis we perform to create the diagnostic report for the ZIO XT Service and the final report for the ZIO AT Service is dependent upon a recording made by each device, which requires the physical return of the ZIO Patch to one of our clinical centers. We predominantly rely on the U.S. Postal Service, or USPS, to perform this delivery service. Delivery of the ZIO Patch to one of our clinical centers may be subject to disruption by natural disasters such as earthquake or flooding, labor disagreements or errors on behalf of USPS staff, or other disruption to the USPS delivery infrastructure. Further, for the ZIO AT Service, we rely on the provision of cellular communication services for the timely transmission of patient information and reportable events. These communication services are also subject to natural disasters, labor disruptions, and infrastructure failure.

Any of these disruptions may render it difficult or temporarily impossible for us to provide the ZIO Service, adversely affecting our operating results, causing significant distraction for management, and negatively impacting our business reputation.

Security breaches, loss of data and other disruptions could compromise sensitive information related to our business or patients, or prevent us from accessing critical information and expose us to liability, which could adversely affect our business and our reputation.

In the ordinary course of our business, we and our third-party billing and collections provider, XIFIN, collect and store sensitive data, including legally-protected personally identifiable health information about patients in the United States and the United Kingdom. We also process and store, and use additional third parties to process and store, sensitive intellectual property and other proprietary business information, including that of our customers, payors and collaborative partners. Our patient information is encrypted but not de-identified. We manage and maintain our applications and data utilizing a combination of on-site systems, managed data center systems and cloud-based computing center systems. These applications and data encompass a wide variety of business critical information, including research and development information, commercial information and business and financial information.

We are highly dependent on information technology networks and systems, including the internet and services hosted by Amazon Web Services, to securely process, transmit and store this critical information. Security breaches of this infrastructure, including physical or electronic break-ins, computer viruses, attacks by hackers and similar breaches, can create system disruptions, shutdowns, or unauthorized disclosure or modifications of confidential information involving patient health information to become publicly available. The secure processing, storage, maintenance and transmission of this critical information are vital to our operations and business strategy, and we devote significant resources to protecting such information. Although we take measures to protect sensitive information from unauthorized access or disclosure, our information technology and infrastructure, and that of XIFIN, may be vulnerable to attacks by hackers or viruses or breaches due to employee error, malfeasance or other disruptions. While we have implemented data privacy and security measures that we believe are compliant with applicable privacy laws and regulations, some confidential and protected health information, or PHI, is transmitted to us by third parties, who may not implement adequate security and privacy measures.

A security breach or privacy violation that leads to disclosure or modification of, or prevents access to, patient information, including protected health information, could harm our reputation, compel us to comply with disparate state breach notification laws, require us to verify the correctness of database contents and otherwise subject us to liability under laws that protect personal data, resulting in increased costs or loss of revenue. If we are unable to prevent such security breaches or privacy violations or implement satisfactory remedial measures, our operations could be disrupted, we may be unable to provide the ZIO Service and we may suffer loss of reputation, financial loss and other regulatory penalties because of lost or misappropriated information, including sensitive patient data. In addition, these breaches and other inappropriate access can be difficult to detect, and any delay in identifying them may lead to increased harm.

Any such breach or interruption of our systems, or those of XIFIN or any of our third-party information technology partners, could compromise our networks or data security processes and sensitive information could be inaccessible or could be accessed by unauthorized parties, publicly disclosed, lost or stolen. Any such interruption in access, improper access, disclosure or other loss of information could result in legal claims or proceedings, liability under laws that protect the privacy of patient information, such as the federal Health Insurance Portability and Accountability Act of 1996, or HIPAA, and the European Union Data Protection Directive, and regulatory penalties. Unauthorized access, loss or dissemination could also disrupt our operations, including our ability to perform our services, bill payors or patients, process claims and appeals, provide customer assistance services, conduct research and development activities, collect, process and prepare company financial information, provide information about our current and future solutions and engage in other patient and clinician education and outreach efforts. Any such breach could also result in the compromise of our trade secrets and other proprietary information, which could adversely affect our business and competitive position.

In addition, the interpretation and application of consumer, health-related and data protection laws, rules and regulations in the United States, Europe and elsewhere are often uncertain, contradictory and in flux. It is possible that these laws, rules and regulations may be interpreted and applied in a manner that is inconsistent with our practices or those of our distributors and partners. If we or these third parties are found to have violated such laws, rules or regulations, it could result in government-imposed fines, orders requiring that we or these third parties change our or their practices, or criminal charges, which could adversely affect our business. Complying with these various laws could cause us to incur substantial costs or require us to change our business practices, systems and compliance procedures in a manner adverse to our business.

The use, misuse or off-label use of the ZIO Service may result in injuries that lead to product liability suits, which could be costly to our business.

The use, misuse or off-label use of the ZIO Service may in the future result in outcomes and complications potentially leading to product liability claims. For example, we are aware that physicians have prescribed the ZIO Patch off-label for pediatric patients. We have also received and may in the future receive product liability or other claims with respect to the ZIO Service, including claims related to skin irritation and alleged burns. In addition, if the ZIO Patch is defectively designed, manufactured or labeled, contains defective components or is misused, we may become subject to costly litigation initiated by physicians, or the hospitals and clinics where physicians prescribing our ZIO Service work, or their patients. Product liability claims are especially prevalent in the medical device industry and could harm our reputation, divert management's attention from our core business, be expensive to defend and may result in sizable damage awards against us.

Although we maintain product liability insurance, we may not have sufficient insurance coverage for future product liability claims. We may not be able to obtain insurance in amounts or scope sufficient to provide us with adequate coverage against all potential liabilities. Any product liability claims brought against us, with or without merit, could increase our product liability insurance rates or prevent us from securing continuing coverage, harm our reputation, significantly increase our expenses, and reduce product sales. Product liability claims in excess of our insurance coverage would be paid out of cash reserves, harming our financial condition and operating results.

Our forecasts of market growth may prove to be inaccurate, and even if the markets in which we compete achieve the forecasted growth, our business may not increase at similar rates, if at all.

Growth forecasts are subject to significant uncertainty and are based on assumptions and estimates that may not prove to be accurate. Our forecasts relating to, among other things, the expected growth in the ambulatory cardiac monitoring solutions market may prove to be inaccurate.

Our growth is subject to many factors, including whether the market for first-line ambulatory cardiac monitoring solutions continues to improve, the rate of market acceptance of the ZIO Service as compared to the products of our competitors and our success in implementing our business strategies, each of which is subject to many risks and uncertainties. If our ZIO Service works as anticipated to provide a correct first-line diagnosis, it may lead to a decrease in the amount of ambulatory cardiac monitoring prescriptions each year in the United States. This outcome would result if our ZIO Service is proven to produce the right diagnosis the first time, thereby reducing the need for additional testing. Accordingly, our forecasts of market opportunity should not be taken as indicative of our future growth.

We may acquire other companies or technologies, which could divert our management's attention, result in additional dilution to our stockholders and otherwise disrupt our operations and harm our operating results.

We may in the future seek to acquire or invest in businesses, applications or technologies that we believe could complement or expand our ambulatory cardiac monitoring solutions portfolio, enhance our technical capabilities or otherwise offer growth opportunities. The pursuit of potential acquisitions may divert the attention of management and cause us to incur various costs and expenses in identifying, investigating and pursuing suitable acquisitions, whether or not they are consummated. We may not be able to identify desirable acquisition targets or be successful in entering into an agreement with any particular target or obtain the expected benefits of any acquisition or investment.

To date, the growth of our operations has been largely organic, and we have limited experience in acquiring other businesses or technologies. We may not be able to successfully integrate acquired personnel, operations and technologies, or effectively manage the combined business following an acquisition. Acquisitions could also result in dilutive issuances of equity securities, the use of our available cash, or the incurrence of debt, which could harm our operating results. In addition, if an acquired business fails to meet our expectations, our operating results, business and financial condition may suffer.

Consolidation of commercial payors could result in payors eliminating coverage or reducing reimbursement rates for our ZIO Service.

When payors combine their operations, the combined company may elect to reimburse our ZIO Service at the lowest rate paid by any of the participants in the consolidation or use its increased size to negotiate reduced rates. If one of the payors participating in the consolidation does not reimburse for the ZIO Service at all, the combined company may elect not to reimburse for the ZIO Service, which would adversely impact our operating results. While recent attempts by Aetna Inc. to acquire Humana Inc. and Anthem Inc. to acquire Cigna Corp. have been largely abandoned due to antitrust challenges by the DOJ, it is possible that these or other payor consolidations may occur in the future.

Our ability to utilize our net operating loss carryovers may be limited.

As of December 31, 2016, we had federal and state net operating loss carryforwards, or NOLs, of \$104.6 million and \$58.6 million, respectively, which if not utilized will begin to expire in 2027 for federal purposes and 2017 for state purposes. We may use these NOLs to offset against taxable income for U.S. federal and state income tax purposes. However, Section 382 of the Internal Revenue Code of 1986, as amended, may limit the NOLs we may use in any year for U.S. federal income tax purposes in the event of certain changes in ownership of our company. A Section 382 "ownership change" generally occurs if one or more stockholders or groups of stockholders who own at least 5% of a company's stock increase their ownership by more than 50 percentage points over their lowest ownership percentage within a rolling three year period. Similar rules may apply under state tax laws. Future issuances or sales of our stock, including certain transactions involving our stock that are outside of our control, could cause an "ownership change." If an "ownership change" has occurred in the past or occurs in the future, Section 382 would impose an annual limit on the amount of pre-ownership change NOLs and other tax attributes we can use to reduce our taxable income, potentially increasing and accelerating our liability for income taxes, and also potentially causing those tax attributes to expire unused. Any limitation on using NOLs could, depending on the extent of such limitation and the NOLs previously used, result in our retaining less cash after payment of U.S. federal and state income taxes during any year in which we have taxable income, rather than losses, than we would be entitled to retain if such NOLs were available as an offset against such income for U.S. federal and state income tax reporting purposes, which could adversely impact our operating results.

If we are unable to implement and maintain effective internal control over financial reporting in the future, investors may lose confidence in the accuracy and completeness of our financial reports and the market price of our common stock may decrease.

The Sarbanes-Oxley Act requires, among other things, that we assess the effectiveness of our internal controls over financial reporting annually and the effectiveness of our disclosure controls and procedures quarterly. Section 404 of the Sarbanes-Oxley Act, or Section 404, requires us to perform system and process evaluation and testing of our internal control over financial reporting to allow management to report on, and our independent registered public accounting firm potentially to attest to, the effectiveness of our internal control over financial reporting. As an “emerging growth company,” we avail ourselves of the exemption from the requirement that our independent registered public accounting firm attest to the effectiveness of our internal control over financial reporting under Section 404. We will no longer be able to take advantage of this exemption beginning on December 31, 2017, when we will be deemed a large accelerated filer and, as a result, cease to be an “emerging growth company.” When our independent registered public accounting firm is required to undertake an assessment of our internal control over financial reporting, the cost of our compliance with Section 404 will correspondingly increase. Our compliance with applicable provisions of Section 404 will require that we incur substantial accounting expense and expend significant management time on compliance-related issues as we implement additional corporate governance practices and comply with reporting requirements.

Section 404 also requires that we evaluate and determine the effectiveness of our internal control over financial reporting and, beginning with our annual report for the year ending December 31, 2017, provide a management report on our internal control over financial reporting along with auditor attestation. If we have material weaknesses in our internal control over financial reporting, we may not detect errors on a timely basis and our financial statements may be materially misstated. We are implementing the process and documentation necessary to perform the evaluation needed to comply with Section 404, but we may not be able to complete our evaluation, testing and any required remediation in a timely fashion.

During the evaluation and testing process, if we identify one or more material weaknesses in our internal control over financial reporting, our management will be unable to conclude that our internal control over financial reporting is effective. Moreover, when we are no longer an emerging growth company, our independent registered public accounting firm will be required to issue an attestation report on the effectiveness of our internal control over financial reporting. Even if our management concludes that our internal control over financial reporting is effective, our independent registered public accounting firm may conclude that there are material weaknesses with respect to our internal controls or the level at which our internal controls are documented, designed, implemented or reviewed.

If we identify material weaknesses in our internal control over financial reporting, if we are unable to comply with the requirements of Section 404 in a timely manner, if we are unable to conclude that our internal control over financial reporting is effective, or when we are no longer an emerging growth company if our auditors were to express an adverse opinion on the effectiveness of our internal control over financial reporting because we had one or more material weaknesses, investors could lose confidence in the accuracy and completeness of our financial disclosures, which could cause the price of our common stock to decline. Internal control deficiencies could also result in a restatement of our financial results in the future. We could also become subject to stockholder or other third-party litigation as well as investigations by the stock exchange on which our securities are listed, the Securities and Exchange Commission, or other regulatory authorities, which could require additional financial and management resources and could result in fines, trading suspensions or other remedies.

Risks Related to Our Intellectual Property

We may become a party to intellectual property litigation or administrative proceedings that could be costly and could interfere with our ability to provide the ZIO Service.

The medical device industry has been characterized by extensive litigation regarding patents, trademarks, trade secrets, and other intellectual property rights, and companies in the industry have used intellectual property litigation to gain a competitive advantage. It is possible that U.S. and foreign patents and pending patent applications or trademarks controlled by third parties, especially those held by our competitors, may be alleged to cover our products or services, or that we may be accused of misappropriating third parties’ trade secrets. Additionally, our products include hardware and software components that we purchase from vendors, and may include design components that are outside of our direct control. Our competitors, many of which have substantially greater resources and have made substantial investments in patent portfolios, trade secrets, trademarks, and competing technologies, may have applied for or obtained, or may in the future apply for or obtain, patents or trademarks that will prevent, limit or otherwise interfere with our ability to make, use, sell and/or export our products and services or to use product names. Moreover, in recent years, individuals and groups that are non-practicing entities, commonly referred to as “patent trolls,” have purchased patents and other intellectual property assets for the purpose of making claims of infringement in order to extract settlements. From time to time, we may receive threatening letters, notices or “invitations to license,” or may be the subject of claims that our products and business operations infringe or violate the intellectual property rights of others. The defense of these matters can be time consuming, costly to defend in litigation, divert management’s attention and resources, damage our reputation and brand and cause us to incur significant expenses or make substantial payments to satisfy judgments or settle claims. Vendors from whom we purchase hardware or software may not indemnify us in the event that such hardware or software is accused of infringing a third-party’s patent or trademark or of misappropriating a third-party’s trade secret.

Further, if such patents, trademarks, or trade secrets are successfully asserted against us, this may harm our business and result in injunctions preventing us from selling our products, license fees, damages and the payment of attorney fees and court costs. In addition, if we are found to willfully infringe third-party patents or trademarks or to have misappropriated trade secrets, we could be required to pay treble damages in addition to other penalties. Although patent, trademark, trade secret, and other intellectual property disputes in the medical device and services area have often been settled through licensing or similar arrangements, costs associated with such arrangements may be substantial and could include ongoing royalties. We may be unable to obtain necessary licenses on satisfactory terms, if at all. If we do not obtain necessary licenses, we may not be able to redesign our ZIO Patch or our ZIO Service to avoid infringement and our product development efforts may be negatively affected as a result.

Similarly, interference or derivation proceedings provoked by third parties or brought by the U.S. Patent and Trademark Office, or USPTO, may be necessary to determine priority with respect to our patents, patent applications, trademarks or trademark applications. We may also become involved in other proceedings, such as reexamination, inter partes review, derivation or opposition proceedings before the USPTO or other jurisdictional body relating to our intellectual property rights or the intellectual property rights of others. Adverse determinations in a judicial or administrative proceeding or failure to obtain necessary licenses could prevent us from manufacturing the ZIO Patch and selling the ZIO Service or using product names, which would have a significant adverse impact on our business.

Additionally, we may need to commence proceedings against others to enforce our patents or trademarks, to protect our trade secrets or know how, or to determine the enforceability, scope and validity of the proprietary rights of others. These proceedings would result in substantial expense to us and significant diversion of effort by our technical and management personnel. We may not prevail in any lawsuits that we initiate and the damages or other remedies awarded, if any, may not be commercially meaningful. We may not be able to stop a competitor from marketing and selling products that are the same or similar to our products and services or from using product or service names that are the same or similar to ours, and our business may be harmed as a result.

We use certain open source software in the ZIO Service. We may face claims from companies that incorporate open source software into their products or from open source licensors, claiming ownership of, or demanding release of, the source code, the open source software or derivative works that were developed using such software, or otherwise seeking to enforce the terms of the applicable open source license. These claims could result in litigation and could require us to cease offering the ZIO Service unless and until we can re-engineer it to avoid infringement. This re-engineering process could require significant additional research and development resources, and we may not be able to complete it successfully. These risks could be difficult to eliminate or manage, and, if not addressed, could harm our business, financial condition and operating results.

Intellectual property rights may not provide adequate protection, which may permit third parties to compete against us more effectively.

In order to remain competitive, we must develop and maintain protection of the proprietary aspects of our technologies. We rely on a combination of patents, copyrights, trademarks, trade secret laws and confidentiality and invention assignment agreements with employees and third parties to protect our intellectual property rights. As of September 30, 2017, we owned, or retained exclusive license to, nine issued U.S. patents, the earliest of which will expire in 2028. As of September 30, 2017, we also owned, or retained an exclusive license to, three issued patents in Japan, two in each of Canada and Australia, and one in each of the European Union and Korea. The earliest expiration date of these international patents is 2027. As of September 30, 2017, we had twenty pending patent applications globally, including four in the United States, one in Australia, two in Canada, one in China, five in the European Union, one in India, four in Japan, and two in Korea. Our patents and patent applications include claims covering key aspects of the design, manufacture and use of the ZIO Patch and the ZIO Service.

We rely, in part, on our ability to obtain and maintain patent protection for our proprietary products and processes. The process of applying for and obtaining a patent is expensive, time consuming and complex, and we may not be able to file, prosecute, maintain, enforce or license all necessary or desirable patent applications at a reasonable cost, in a timely manner, or in all jurisdictions where protection may be commercially advantageous, or we may not be able to protect our proprietary rights at all. Despite our efforts to protect our proprietary rights, unauthorized parties may be able to obtain and use information that we regard as proprietary. In addition, the issuance of a patent does not ensure that it is valid or enforceable, so even if we obtain patents, they may not be valid or enforceable against third parties. Our patent applications may not result in issued patents and our patents may not be sufficiently broad to protect our technology. Furthermore, the issuance of a patent does not give us the right to practice the patented invention. Third parties may have blocking patents that could prevent us from marketing our own products and practicing our own technology. Alternatively, third parties may seek approval to market their own products similar to or otherwise competitive with our products. In these circumstances, we may need to defend and/or assert our patents, including by filing lawsuits alleging patent infringement. In any of these types of proceedings, a court or agency with jurisdiction may find our patents invalid or unenforceable; competitors may then be able to market products and use manufacturing and analytical processes that are substantially similar to ours. Even if we have valid and enforceable patents, these patents still may not provide protection against competing products or processes sufficient to achieve our business objectives.

If we are unable to protect the confidentiality of our trade secrets and other proprietary information, our business and competitive position may be harmed.

We rely heavily on trade secrets as well as invention assignment and confidentiality provisions that we have in contracts with our employees, consultants, collaborators and others to protect our algorithms and other aspects of our ZIO Service. We may not be able to prevent the unauthorized disclosure or use of our technical knowledge or other trade secrets by consultants, vendors or former or current employees, despite the existence generally of these confidentiality agreements and other contractual restrictions. These agreements may not provide meaningful protection for our trade secrets, know-how, or other proprietary information in the event of any unauthorized use, misappropriation, or disclosure of such trade secrets, know-how, or other proprietary information. There can be no assurance that employees, consultants, vendors and clients have executed such agreements or have not breached or will not breach their agreements with us, that we will have adequate remedies for any breach, or that our trade secrets will not otherwise become known or independently developed by competitors. Despite the protections we do place on our intellectual property, monitoring unauthorized use and disclosure of our intellectual property is difficult, and we do not know whether the steps we have taken to protect our intellectual property will be adequate. In addition, the laws of many foreign countries will not protect our intellectual property rights to the same extent as the laws of the United States. Consequently, we may be unable to prevent our proprietary technology from being exploited abroad, which could affect our ability to expand to international markets or require costly efforts to protect our technology.

We may also employ individuals who were previously or are concurrently employed at research institutions or other medical device companies, including our competitors or potential competitors. We may be subject to claims that these employees, or we, have inadvertently or otherwise used or disclosed trade secrets or other proprietary information of their former or concurrent employers, or that patents and applications we have filed to protect inventions of these employees, even those related to one or more of our products, are rightfully owned by their former or concurrent employer. Litigation may be necessary to defend against these claims. Even if we are successful in defending against these claims, litigation could result in substantial costs and be a distraction to management.

To the extent our intellectual property protection is incomplete, we are exposed to a greater risk of direct competition. A third party could, without authorization, copy or otherwise obtain and use our products or technology, or develop similar technology. Our competitors could purchase our products and attempt to replicate some or all of the competitive advantages we derive from our development efforts or design around our protected technology. Our failure to secure, protect and enforce our intellectual property rights could substantially harm the value of our ZIO Service, brand and business. The theft or unauthorized use or publication of our trade secrets and other confidential business information could reduce the differentiation of our products and harm our business, the value of our investment in development or business acquisitions could be reduced and third parties might make claims against us related to losses of their confidential or proprietary information. Any of the foregoing could materially and adversely affect our business.

Further, it is possible that others will independently develop the same or similar technology or otherwise obtain access to our unpatented technology, and in such cases we could not assert any trade secret rights against such parties. Costly and time-consuming litigation could be necessary to enforce and determine the scope of our trade secret rights and related confidentiality and nondisclosure provisions. If we fail to obtain or maintain trade secret protection, or if our competitors obtain our trade secrets or independently develop technology similar to ours or competing technologies, our competitive market position could be materially and adversely affected. In addition, some courts inside and outside the United States are less willing or unwilling to protect trade secrets and agreement terms that address non-competition are difficult to enforce in many jurisdictions and might not be enforceable in certain cases.

If our trademarks and tradenames are not adequately protected, then we may not be able to build name recognition in our markets and our business may be adversely affected.

We rely on trademarks, service marks, tradenames and brand names, such as our registered trademark “ZIO,” to distinguish our products from the products of our competitors, and have registered or applied to register these trademarks. We cannot assure you that our trademark applications will be approved. During trademark registration proceedings, we may receive rejections. Although we are given an opportunity to respond to those rejections, we may be unable to overcome such rejections. In addition, in proceedings before the USPTO and in proceedings before comparable agencies in many foreign jurisdictions, third parties are given an opportunity to oppose pending trademark applications and to seek to cancel registered trademarks. Opposition or cancellation proceedings may be filed against our trademarks, and our trademarks may not survive such proceedings. In the event that our trademarks are successfully challenged, we could be forced to rebrand our products, which could result in loss of brand recognition and could require us to devote resources towards advertising and marketing new brands. Further, we cannot assure you that competitors will not infringe our trademarks or that we will have adequate resources to enforce our trademarks. Additionally, we do not own any registered trademarks for the mark “IRHYTHM” and we are aware of at least one third-party that has registered the “IRHYTHM” mark in the United States, the European Union and Taiwan in connection with computer software for controlling and managing patient medical information, heart rate monitors, and heart rate monitors to be worn during moderate exercise, among other uses. We and the third party are involved in adversary proceedings before the Trademark Offices in the United States and the European Union, and those proceedings could impact our ability to register the “IRHYTHM” mark in those jurisdictions. It is possible that the third-party could bring suit against us claiming infringement of the “IRHYTHM” mark, and if it did so and if there were a court determination against us, we might then be obligated to pay monetary damages, enter into a license agreement, or cease use of the “IRHYTHM” name and mark, all of which could have a material adverse effect on our business, financial condition, results of operations and prospects.

Changes in patent law could diminish the value of patents in general, thereby impairing our ability to protect our existing and future products.

Recent patent reform legislation could increase the uncertainties and costs surrounding the prosecution of patent applications and the enforcement or defense of issued patents. In 2011, the Leahy-Smith America Invents Act, or the Leahy-Smith Act, was signed into law. The Leahy-Smith Act includes a number of significant changes to U.S. patent law. These include provisions that affect the way patent applications are prosecuted and also may affect patent litigation. These also include provisions that switched the United States from a “first-to-invent” system to a “first-to-file” system, allow third-party submission of prior art to the USPTO during patent prosecution and set forth additional procedures to attack the validity of a patent by the USPTO administered post grant proceedings. Under a first-to-file system, assuming the other requirements for patentability are met, the first inventor to file a patent application generally will be entitled to the patent on an invention regardless of whether another inventor had made the invention earlier. The USPTO recently developed new regulations and procedures to govern administration of the Leahy-Smith Act, and many of the substantive changes to patent law associated with the Leahy-Smith Act, and in particular, the first to file provisions, only became effective in 2013. Under the new post grant provisions of the Leahy-Smith Act, the USPTO introduced procedures that provide additional administrative pathways for third parties to challenge issued patents. Inter partes review, or IPR, is one of these procedures. The number of IPR challenges filed is increasing, and in many cases, the USPTO is canceling or significantly narrowing issued patent claims. Accordingly, even if a patent is granted by the USPTO, there is risk that it may not withstand an IPR challenge. Accordingly, it is not clear what, if any, impact the Leahy-Smith Act will have on the operation of our business. The Leahy-Smith Act and its implementation could increase the uncertainties and costs surrounding the prosecution of our patent applications and the enforcement or defense of our issued patents, all of which could have a material adverse effect on our business, financial condition, results of operations and prospects.

In addition, patent reform legislation may pass in the future that could lead to additional uncertainties and increased costs surrounding the prosecution, enforcement and defense of our patents and applications. Furthermore, the U.S. Supreme Court and the U.S. Court of Appeals for the Federal Circuit have made, and will likely continue to make, changes in how the patent laws of the United States are interpreted. Recent case law has increased uncertainty regarding the availability of patent protection for certain technologies and the costs associated with obtaining patent protection for those technologies. For example, the U.S. Supreme Court has ruled on several patent cases in recent years, either narrowing the scope of patent protection available in certain circumstances or weakening the rights of patent owners in certain situations. In particular, the 2014 decision by the U.S. Supreme Court in *Alice Corp. v. CLS Bank International* has increased the difficulty of obtaining new software patents and enforcing existing software patents. Similarly, foreign courts have made, and will likely continue to make, changes in how the patent laws in their respective jurisdictions are interpreted. We cannot predict future changes in the interpretation of patent laws or changes to patent laws that might be enacted into law by U.S. and foreign legislative bodies. Those changes may materially affect our patents or patent applications and our ability to obtain additional patent protection in the future.

Risks Related to Government Regulation

Changes in the regulatory environment may constrain or require us to restructure our operations, which may harm our revenue and operating results.

Healthcare laws and regulations change frequently and may change significantly in the future. We may not be able to adapt our operations to address every new regulation, and new regulations may adversely affect our business. We cannot assure you that a review of our business by courts or regulatory authorities would not result in a determination that adversely affects our revenue and operating results, or that the healthcare regulatory environment will not change in a way that restricts our operations. In addition, there is risk that the U.S. Congress may implement changes in laws and regulations governing healthcare service providers, including measures to control costs, or reductions in reimbursement levels, which may adversely affect our business and results of operations.

Government payors, such as CMS, as well as insurers, have increased their efforts to control the cost, utilization and delivery of healthcare services. From time to time, the U.S. Congress has considered and implemented changes in the CMS fee schedules in conjunction with budgetary legislation. Further reductions of reimbursement by CMS for services or changes in policy regarding coverage of tests or other requirements for payment, such as prior authorization or a physician or qualified practitioner's signature on test requisitions, may be implemented from time to time. Reductions in the reimbursement rates and changes in payment policies of other third-party payors may occur as well. Similar changes in the past have resulted in reduced payments as well as added costs and have added more complex regulatory and administrative requirements. Further changes in federal, state, local and third-party payor regulations or policies may have a material adverse impact on our business. Actions by agencies regulating insurance or changes in other laws, regulations, or policies may also have a material adverse effect on our business.

If we fail to comply with healthcare and other governmental regulations, we could face substantial penalties and our business, results of operations and financial condition could be adversely affected.

The products and services we offer are highly regulated, and there can be no assurance that the regulatory environment in which we operate will not change significantly and adversely in the future. Our arrangements with physicians, hospitals and clinics may expose us to broadly applicable fraud and abuse and other laws and regulations that may restrict the financial arrangements and relationships through which we market, sell and distribute our products and services. Our employees, consultants, and commercial partners may engage in misconduct or other improper activities, including non-compliance with regulatory standards and requirements. Federal and state healthcare laws and regulations that may affect our ability to conduct business, include, without limitation:

- federal and state laws and regulations regarding billing and claims payment applicable to our ZIO Service and regulatory agencies enforcing those laws and regulations
- the federal Anti-Kickback Statute, which prohibits, among other things, any person from knowingly and willfully offering, soliciting, receiving or providing remuneration, directly or indirectly, in exchange for or to induce either the referral of an individual for, or the purchase, order or recommendation of, any good or service for which payment may be made under federal healthcare programs, such as the CMS programs
- the federal False Claims Act, which prohibits, among other things, individuals or entities from knowingly presenting, or causing to be presented, false claims, or knowingly using false statements, to obtain payment from the federal government
- federal criminal laws that prohibit executing a scheme to defraud any healthcare benefit program or making false statements relating to healthcare matters
- the FCPA, the U.K. Bribery Act of 2010, and other local anti-corruption laws that apply to our international activities
- the federal Physician Payment Sunshine Act, or Open Payments, created under the Affordable Care Act, and its implementing regulations, which requires manufacturers of drugs, medical devices, biologicals and medical supplies for which payment is available under Medicare, Medicaid, or the Children's Health Insurance Program to report annually to the DHHS, information related to payments or other transfers of value made to licensed physicians and teaching hospitals, as well as ownership and investment interests held by physicians and their immediate family members
- HIPAA, as amended by the Health Information Technology for Economic and Clinical Health Act, and its implementing regulations, which impose certain requirements relating to the privacy, security and transmission of individually identifiable health information; HIPAA also created criminal liability for knowingly and willfully falsifying or concealing a material fact or making a materially false statement in connection with the delivery of or payment for healthcare benefits, items or services

- the federal physician self-referral prohibition, commonly known as the Stark Law
- state law equivalents of each of the above federal laws, such as anti-kickback and false claims laws which may apply to items or services reimbursed by any third-party payor, including commercial insurers, and state and foreign laws governing the privacy and security of health information in certain circumstances, many of which differ from each other in significant ways and often are not preempted by HIPAA, thus complicating compliance efforts

The Affordable Care Act was enacted in 2010. The Affordable Care Act, among other things, amends the intent requirement of the federal Anti-Kickback Statute and criminal healthcare fraud statutes. A person or entity no longer needs to have actual knowledge of this statute or specific intent to violate it. In addition, the Affordable Care Act provides that the government may assert that a claim including items or services resulting from a violation of the federal Anti-Kickback Statute constitutes a false or fraudulent claim for purposes of the False Claims Act.

Because of the breadth of these laws and the narrowness of available statutory and regulatory exemptions, it is possible that some of our activities could be subject to challenge under one or more of such laws. Any action brought against us for violations of these laws or regulations, even successfully defended, could cause us to incur significant legal expenses and divert our management's attention from the operation of our business. We may be subject to private "qui tam" actions brought by individual whistleblowers on behalf of the federal or state governments, with potential liability under the federal False Claims Act including mandatory treble damages and significant per-claim penalties, currently set at \$10,957 to \$21,916 per false claim.

Although we have adopted policies and procedures designed to comply with these laws and regulations and conduct internal reviews of our compliance with these laws, our compliance is also subject to governmental review. The growth of our business and sales organization and our expansion outside of the United States may increase the potential of violating these laws or our internal policies and procedures. The risk of our being found in violation of these or other laws and regulations is further increased by the fact that many have not been fully interpreted by the regulatory authorities or the courts, and their provisions are open to a variety of interpretations. Any action brought against us for violation of these or other laws or regulations, even if we successfully defend against it, could cause us to incur significant legal expenses and divert our management's attention from the operation of our business. If our operations are found to be in violation of any of the federal, state and foreign laws described above or any other current or future fraud and abuse or other healthcare laws and regulations that apply to us, we may be subject to penalties, including significant criminal, civil, and administrative penalties, damages, fines, imprisonment, for individuals, exclusion from participation in government programs, such as Medicare and Medicaid, and we could be required to curtail or cease our operations. Any of the foregoing consequences could seriously harm our business and our financial results.

If we fail to obtain and maintain necessary regulatory clearances or approvals for the ZIO Patch and ZIO Service, or if clearances or approvals for future products and indications are delayed or not issued, our commercial operations would be harmed.

The ZIO Patch and ZIO Service are subject to extensive regulation by the FDA in the United States and by our Notified Body in the EU. Government regulations specific to medical devices are wide ranging and govern, among other things:

- product design, development and manufacture
- laboratory, preclinical and clinical testing, labeling, packaging, storage and distribution
- premarketing clearance or approval
- record keeping
- product marketing, promotion and advertising, sales and distribution
- post-marketing surveillance, including reporting of deaths or serious injuries and recalls and correction and removals

Before a new medical device or service, or a new intended use for an existing product or service, can be marketed in the United States, a company must first submit and receive either 510(k) clearance or premarketing approval from the FDA, unless an exemption applies. Either process can be expensive, lengthy and unpredictable. We may not be able to obtain the necessary clearances or approvals or may be unduly delayed in doing so, which could harm our business. Furthermore, even if we are granted regulatory clearances or approvals, they may include significant limitations on the indicated uses for the product, which may limit the market for the product. Although we have obtained 510(k) clearance to market the ZIO Patch and ZIO Service, our clearance can be revoked if safety or efficacy problems develop.

In addition, we are required to file various reports with the FDA, including reports required by the medical device reporting regulations, or MDRs, that require that we report to the regulatory authorities if our ZIO Service may have caused or contributed to a death or serious injury or malfunctioned in a way that would likely cause or contribute to a death or serious injury if the malfunction were to recur. If these reports are not filed in a timely manner, regulators may impose sanctions and we may be subject to product liability or regulatory enforcement actions, all of which could harm our business.

If we initiate a correction or removal for our ZIO Service to reduce a risk to health posed by the ZIO Service, we would be required to submit a publicly available Correction and Removal report to the FDA and, in many cases, similar reports to other regulatory agencies. This report could be classified by the FDA as a device recall which could lead to increased scrutiny by the FDA, other international regulatory agencies and our customers regarding the quality and safety of our ZIO Service. Furthermore, the submission of these reports could be used by competitors against us and cause physicians to delay or cancel prescriptions, which could harm our reputation.

The FDA and the Federal Trade Commission, or FTC, also regulate the advertising and promotion of our products and services to ensure that the claims we make are consistent with our regulatory clearances, that there is adequate and reasonable data to substantiate the claims and that our promotional labeling and advertising is neither false nor misleading. If the FDA or FTC determines that any of our advertising or promotional claims are misleading, not substantiated or not permissible, we may be subject to enforcement actions, including warning letters, and we may be required to revise our promotional claims and make other corrections or restitutions.

The FDA and state authorities have broad enforcement powers. Our failure to comply with applicable regulatory requirements could result in enforcement action by the FDA or state agencies, which may include any of the following sanctions:

- adverse publicity, warning letters, fines, injunctions, consent decrees and civil penalties
- repair, replacement, refunds, recall or seizure of our products
- operating restrictions, partial suspension or total shutdown of production
- denial of our requests for 510(k) clearance or premarket approval of new products or services, new intended uses or modifications to existing products or services
- withdrawal of 510(k) clearance or premarket approvals that have already been granted
- criminal prosecution

If any of these events were to occur, our business and financial condition could be harmed.

Material modifications to the ZIO Patch, labelling of the ZIO Patch, or ZIO Service may require new 510(k) clearances, CE Marks or other premarket approvals or may require us to recall or cease marketing our products and services until clearances are obtained.

Material modifications to the intended use or technological characteristics of the ZIO Patch or ZIO Service will require new 510(k) clearances, premarket approvals or CE Mark grants, or require us to recall or cease marketing the modified devices until these clearances or approvals are obtained. Based on FDA published guidelines, the FDA requires device manufacturers to initially make and document a determination of whether or not a modification requires a new approval, supplement or clearance; however, the FDA can review a manufacturer's decision. Any modification to an FDA cleared device or service that would significantly affect its safety or efficacy or that would constitute a major change in its intended use would require a new 510(k) clearance or possibly a premarket approval. We may not be able to obtain additional 510(k) clearances or premarket approvals for new products or for modifications to, or additional indications for, the ZIO Patch or ZIO Service in a timely fashion, or at all. Delays in obtaining required future clearances would harm our ability to introduce new or enhanced products in a timely manner, which in turn would harm our future growth. We have made modifications to the ZIO Patch and ZIO Service in the past that we believe do not require additional clearances or approvals, and we may make additional modifications in the future. If the FDA or an EU Notified Body disagrees and requires new clearances or approvals for any of these modifications, we may be required to recall and to stop selling or marketing the ZIO Patch and ZIO Service as modified, which could harm our operating results and require us to redesign our products or services. In these circumstances, we may be subject to significant enforcement actions.

If we or our suppliers fail to comply with the FDA's QSR or the European Union's Medical Device Directive, our manufacturing or distribution operations could be delayed or shut down and our revenue could suffer.

Our manufacturing and design processes and those of our third-party suppliers are required to comply with the FDA's Quality System Regulation, or QSR and the EU's Medical Device Directive, or MDD, both of which cover procedures and documentation of the design, testing, production, control, quality assurance, labeling, packaging, storage and shipping of ZIO Patches. We are also subject to similar state requirements and licenses, and to ongoing ISO 13485 compliance in all operations, including design, manufacturing, and service, to maintain our CE Mark. In addition, we must engage in extensive recordkeeping and reporting and must make available our facilities and records for periodic unannounced inspections by governmental agencies, including the FDA, state authorities, EU Notified Bodies and comparable agencies in other countries. If we fail a regulatory inspection, our operations could be disrupted and our manufacturing interrupted. Failure to take adequate corrective action in response to an adverse regulatory inspection could result in, among other things, a shutdown of our manufacturing or product distribution operations, significant fines, suspension of marketing clearances and approvals, seizures or recalls of our device, operating restrictions and criminal prosecutions, any of which would cause our business to suffer. Furthermore, our key component suppliers may not currently be or may not continue to be in compliance with applicable regulatory requirements, which may result in manufacturing delays for our product and cause our revenue to decline.

We are registered with the FDA as a medical device specifications developer and manufacturer. The FDA has broad post-market and regulatory enforcement powers. We are subject to unannounced inspections by the FDA and the Food and Drug Branch of the California Department of Public Health, or CDPH, to determine our compliance with the QSR and other regulations at both our design and manufacturing facilities, and these inspections may include the manufacturing facilities of our suppliers. Our design facilities in San Francisco, California were most recently audited by the FDA in June 2016 and no formal observations resulted. For our manufacturing facility in Cypress, California, the most recent FDA audit occurred in August 2017 and no formal observations resulted. We believe that we are in substantial compliance with the QSR.

We are also registered with the EU as a medical device developer, manufacturer and service operator through the National Standard Authority of Ireland, or NSAI, our European Notified Body. Most recently, the NSAI conducted an ISO 13485 recertification audit of our design, manufacturing and service operations in March, April and June 2017.

We can provide no assurance that we will continue to remain in compliance with the QSR or MDD. If the FDA, CDPH or NSAI inspect any of our facilities and discover compliance problems, we may have to cease manufacturing and product distribution until we can take the appropriate remedial steps to correct the audit findings. Taking corrective action may be expensive, time consuming and a distraction for management and if we experience a delay at our manufacturing facility we may be unable to produce ZIO Patches, which would harm our business.

ZIO Patches may in the future be subject to product recalls that could harm our reputation.

The FDA and similar governmental authorities in other countries have the authority to require the recall of commercialized products in the event of material regulatory deficiencies or defects in design or manufacture. A government mandated or voluntary recall by us could occur as a result of component failures, manufacturing errors or design or labeling defects. Recalls of ZIO Patches would divert managerial attention, be expensive, harm our reputation with customers and harm our financial condition and results of operations. A recall announcement would also negatively affect our stock price.

Healthcare reform measures could hinder or prevent the ZIO Service's commercial success.

In the United States, there have been, and we expect there will continue to be, a number of legislative and regulatory changes to the healthcare system that could harm our future revenue and profitability. Federal and state lawmakers regularly propose and, at times, enact legislation that would result in significant changes to the healthcare system, some of which are intended to contain or reduce the costs of medical products and services. For example, the Affordable Care Act contains a number of provisions, including those governing enrollment in federal healthcare programs, reimbursement changes and fraud and abuse measures, all of which will impact existing government healthcare programs and will result in the development of new programs. The Affordable Care Act, among other things, imposes an excise tax of 2.3% on the sale of most medical devices, including ours. Although this excise tax has temporarily been suspended for two years beginning on January 1, 2016, any failure to pay this amount if it becomes due in the future could result in an injunction on the sale of our products, fines and penalties.

We cannot assure you that the Affordable Care Act, as currently enacted or as amended, repealed or replaced in the future, will not harm our business and financial results and we cannot predict how future federal or state legislative or administrative changes relating to healthcare reform will affect our business. There likely will continue to be legislative and regulatory proposals at the federal and state levels directed at containing or lowering the cost of healthcare. We cannot predict the initiatives that may be adopted in the future or their full impact. The continuing efforts of the government, insurance companies, managed care organizations and other payors of healthcare services to contain or reduce costs of healthcare may harm:

- our ability to set a price that we believe is fair for our ZIO Service
- our ability to generate revenue and achieve or maintain profitability
- the availability of capital

Compliance with environmental laws and regulations could be expensive, and failure to comply with these laws and regulations could subject us to significant liability.

Our research and development and manufacturing operations involve the use of hazardous substances and are subject to a variety of federal, state, local and foreign environmental laws and regulations relating to the storage, use, discharge, disposal, remediation of, and human exposure to, hazardous substances and the sale, labeling, collection, recycling, treatment and disposal of products containing hazardous substances. Liability under environmental laws and regulations can be joint and several and without regard to fault or negligence. Compliance with environmental laws and regulations may be expensive and noncompliance could result in substantial liabilities, fines and penalties, personal injury and third-party property damage claims and substantial investigation and remediation costs. Environmental laws and regulations could become more stringent over time, imposing greater compliance costs and increasing risks and penalties associated with violations. We cannot assure you that violations of these laws and regulations will not occur in the future or have not occurred in the past as a result of human error, accidents, equipment failure or other causes. The expense associated with environmental regulation and remediation could harm our financial condition and operating results.

Risks Related to Our Common Stock

Our common stock has only recently become publicly traded, and we expect that the price of our common stock will fluctuate substantially.

Our common stock has only recently become publicly traded, and we cannot be certain that an active trading market for our common stock will be sustained. The lack of an active market may impair the value of our common stock, or your ability to sell your shares at the time you wish to sell them or at a price that you consider reasonable. An inactive market may also impair our ability to raise capital to continue to fund operations by selling common stock and may impair our ability to acquire other companies or products by using our common stock as consideration. Although our common stock is listed on the NASDAQ Global Market, if we fail to satisfy the continued listing standards of the NASDAQ Global Market, we could be de-listed, which would negatively impact the price of our common stock.

The market price of our common stock is likely to be highly volatile and may fluctuate substantially in response to, among other things, the risk factors described in this Quarterly Report on Form 10-Q and other factors, many of which are beyond our control, including:

- changes in analysts' estimates, investors' perceptions, recommendations by securities analysts or our failure to achieve analysts' estimates
- quarterly variations in our or our competitors' results of operations
- periodic fluctuations in our revenue, due in part to the way in which we recognize revenue
- the financial projections we may provide to the public, any changes in these projections or our failure to meet these projections
- general market conditions and other factors unrelated to our operating performance or the operating performance of our competitors
- market valuations (for example, valuations based upon multiples of revenue and earnings before interest, taxes, depreciation and amortization) of comparable companies and changes in market valuations
- decreases in our market valuations on an absolute basis or relative to comparable companies
- changes in reimbursement by current or potential payors

- changes in operating performance and stock market valuations of other technology companies generally, or those in the medical device industry in particular
- actual or anticipated changes in regulatory oversight of our products
- the results of our clinical trials
- the loss of key personnel, including changes in our board of directors and management
- legislation or regulation of our market
- lawsuits threatened or filed against us
- the announcement of new products or product enhancements by us or our competitors
- announced or completed acquisitions of businesses or technologies by us or our competitors
- announcements related to patents issued to us or our competitors and to litigation
- developments in our industry

In addition, the market prices of the stock of many new issuers in the medical device industry and of other companies with smaller market capitalizations like us have been volatile and from time to time have experienced significant share price and trading volume changes unrelated or disproportionate to the operating performance of those companies. Fluctuations in our stock price, volume of shares traded, and changes in our market valuations may make our stock less attractive to certain investors. In the past, stockholders have filed securities class action litigation following periods of market volatility. If we were to become involved in securities litigation, it could subject us to substantial costs, divert resources and the attention of management from our business, and adversely affect our business, results of operations, financial condition, reputation and cash flows. These factors may materially and adversely affect the market price of our common stock.

If securities or industry analysts do not publish research or reports about our business, or publish negative reports about our business, our share price and trading volume could decline.

The trading market for our common stock depends in part on the research and reports that securities or industry analysts publish about us or our business, our market and our competitors. We do not have any control over these analysts. If one or more of the analysts who cover us downgrade our shares or change their opinion of our business, our share price would likely decline. If one or more of these analysts cease coverage of our company or fail to regularly publish reports on us, we could lose visibility in the financial markets, which could cause our share price or trading volume to decline.

Sales of a substantial number of shares of our common stock in the public market, including by our existing stockholders, could cause our stock price to fall.

Sales of a substantial number of shares of our common stock in the public market, or the perception that these sales might occur, could depress the market price of our common stock and could impair our ability to raise capital through the sale of additional equity securities. We are unable to predict the effect that these sales and others may have on the prevailing market price of our common stock.

In addition, certain of our stockholders can require us to register shares of our capital stock owned by them for public sale in the United States. We have also filed a registration statement to register shares of our common stock reserved for future issuance under our equity compensation plans. Subject to the satisfaction of applicable exercise periods and applicable volume and restrictions that apply to affiliates, the shares of our common stock issued upon exercise of outstanding options will become available for immediate resale in the public market upon issuance.

Future sales of our common stock may make it more difficult for us to sell equity securities in the future at a time and at a price that we deem appropriate. These sales also could cause the market price of our common stock to decline and make it more difficult for you to sell shares of our common stock.

The requirements of being a public company may strain our resources, divert management's attention and affect our ability to attract and retain executive management and qualified board members.

As a public company, we are subject to the reporting requirements of the Exchange Act, the Sarbanes-Oxley Act, the Dodd Frank Act, the listing requirements of The NASDAQ Stock Market and other applicable securities laws, rules and regulations. Compliance with these laws, rules and regulations will increase our legal and financial compliance costs, make some activities more difficult, time consuming or costly and increase demand on our systems and resources, particularly after we no longer qualify as an "emerging growth company," under the JOBS Act. The Exchange Act requires, among other things, that we file annual, quarterly and current reports with respect to our business and operating results. The Sarbanes-Oxley Act requires, among other things, that we maintain effective disclosure controls and procedures and internal control over financial reporting. In order to maintain and, if required, improve our disclosure controls and procedures and internal control over financial reporting to meet this standard, significant resources and management oversight may be required. As a result, our management and other personnel divert attention from operational and other business matters to devote substantial time to these public company requirements. In particular, we will incur significant expenses and devote substantial management effort toward ensuring compliance with the requirements of Section 404, which has increased now that we will no longer be an emerging growth company under the JOBS Act starting with our next fiscal year. We continue to hire additional accounting and financial staff with appropriate public company experience and technical accounting knowledge. We cannot predict or estimate the amount of additional costs we will incur in order to remain compliant with our public company reporting requirements or the timing of such costs. Additional compensation costs and any future equity awards will increase our compensation expense, which will increase our general and administrative expense and could adversely affect our profitability.

In addition, changing laws, regulations and standards relating to corporate governance and public disclosure are creating uncertainty for public companies, increasing legal and financial compliance costs and making some activities more time consuming. These laws, regulations and standards are subject to varying interpretations, in many cases due to their lack of specificity and, as a result, their application in practice may evolve over time as new guidance is provided by regulatory and governing bodies. This could result in continuing uncertainty regarding compliance matters and higher costs necessitated by ongoing revisions to disclosure and governance practices. We intend to invest resources to comply with evolving laws, regulations and standards, and this investment may result in increased general and administrative expenses and a diversion of management's time and attention from revenue generating activities to compliance activities. If our efforts to comply with new laws, regulations and standards differ from the activities intended by regulatory or governing bodies due to ambiguities related to their application and practice, regulatory authorities may initiate legal proceedings against us and our business may be harmed.

We will incur additional compensation costs in the event that we decide to pay our executive officers cash compensation closer to that of executive officers of other public medical device companies, which would increase our general and administrative expense and could harm our profitability. Any future equity awards will also increase our compensation expense. We also expect that being a public company and compliance with applicable rules and regulations will make it more expensive for us to obtain director and officer liability insurance, and we may be required to accept reduced coverage or incur substantially higher costs to obtain coverage. These factors could also make it more difficult for us to attract and retain qualified executive officers and members of our board of directors, particularly to serve on our audit committee and compensation committee.

As a result of disclosure of information in this filing and in other filings required of a public company, our business and financial condition is more visible, which could be advantageous to our competitors and other third parties and could result in threatened or actual litigation. If such claims are successful, our business and operating results could be harmed, and even if the claims are resolved in our favor, these claims, and the time and resources necessary to resolve them, could divert the resources of our management and harm our business and operating results.

We are an emerging growth company and we cannot be certain if the reduced disclosure requirements applicable to emerging growth companies will make our common stock less attractive to investors.

We currently qualify as an "emerging growth company" under the JOBS Act. For as long as we continue to be an emerging growth company, we may take advantage of certain exemptions from reporting requirements that are applicable to other public companies including, but not limited to, not being required to comply with the auditor attestation requirements of Section 404, reduced disclosure obligations regarding executive compensation in our periodic reports and proxy statements, and exemptions from the requirements of holding a nonbinding advisory vote on executive compensation and stockholder approval of any golden parachute payments not previously approved. We cannot predict if investors will find our common stock less attractive to the extent we rely on available exemptions. If some investors do find our common stock less attractive, there may be a less active trading market for our common stock and our stock price may be more volatile or may decline.

Based on our market capitalization as of June 30, 2017, our status as an emerging growth company will cease on December 31, 2017 and we will be required to comply with, among other requirements, the auditor attestation requirements of Section 404 for our next annual report.

Anti-takeover provisions in our amended and restated certificate of incorporation and bylaws, and Delaware law, could discourage a change in control of our company or a change in our management.

Our amended and restated certificate of incorporation and bylaws contain provisions that might enable our management to resist a takeover. These provisions include:

- a classified board of directors
- advance notice requirements applicable to stockholders for matters to be brought before a meeting of stockholders and requirements as to the form and content of a stockholders' notice
- a supermajority stockholder vote requirement for amending certain provisions of our amended and restated certificate of incorporation and bylaws
- the right to issue preferred stock without stockholder approval, which could be used to dilute the stock ownership of a potential hostile acquirer
- allowing stockholders to remove directors only for cause
- a requirement that the authorized number of directors may be changed only by resolution of the board of directors
- allowing all vacancies, including newly created directorships, to be filled by the affirmative vote of a majority of directors then in office, even if less than a quorum, except as otherwise required by law
- a requirement that our stockholders may only take action at annual or special meetings of our stockholders and not by written consent
- limiting the forum to Delaware for certain litigation against us
- limiting the persons that can call special meetings of our stockholders to our board of directors, the chairperson of our board of directors, the chief executive officer or the president (in the absence of a chief executive officer)

These provisions might discourage, delay or prevent a change in control of our company or a change in our management. The existence of these provisions could adversely affect the voting power of holders of common stock and limit the price that investors might be willing to pay in the future for shares of our common stock. In addition, because we are incorporated in Delaware, we are governed by the provisions of Section 203 of the Delaware General Corporation Law, which generally prohibits a Delaware corporation from engaging in any of a broad range of business combinations with any "interested" stockholder for a period of three years following the date on which the stockholder became an "interested" stockholder.

Our amended and restated certificate of incorporation provides that the Court of Chancery of the State of Delaware will be the sole and exclusive forum for substantially all disputes between us and our stockholders, which could limit our stockholders' abilities to obtain a favorable judicial forum for disputes with us or our directors, officers or employees.

Our amended and restated certificate of incorporation provides that, unless we consent to the selection of an alternative forum, the Court of Chancery of the State of Delaware is the sole and exclusive forum for (i) any derivative action or proceeding brought on our behalf, (ii) any action asserting a claim of breach of fiduciary duty owed by any of our directors, officers or other employees to us or to our stockholders, (iii) any action asserting a claim arising pursuant to the Delaware General Corporation Law or our amended and restated certificate of incorporation or bylaws, (iv) any action to interpret, apply, enforce or determine the validity of our amended and restated certificate of incorporation or bylaws or (v) any action asserting a claim governed by the internal affairs doctrine. The choice of forum provision may limit a stockholder's ability to bring a claim in a judicial forum that it finds favorable for disputes with us or our directors, officers or other employees, which may discourage such lawsuits against us and our directors, officers and other employees. Alternatively, if a court were to find the choice of forum provision contained in our amended and restated certificate of incorporation to be inapplicable or unenforceable in an action, we may incur additional costs associated with resolving such action in other jurisdictions, which could harm our business, financial condition and operating results.

We have not paid dividends in the past and do not expect to pay dividends in the future, and, as a result, any return on investment may be limited to the value of our stock.

We have never paid cash dividends and do not anticipate paying cash dividends in the foreseeable future. The payment of dividends will depend on our earnings, capital requirements, financial condition, prospects and other factors our board of directors may deem relevant. In addition, our loan agreements limit our ability to, among other things, pay dividends or make other distributions or payments on account of our common stock, in each case subject to certain exceptions. If we do not pay dividends, our stock may be less valuable because a return on your investment will only occur if you sell our common stock after our stock price appreciates.

ITEM 2 UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS*Unregistered Sales of Equity Securities*

None.

Use of Proceeds

Our initial public offering of 7,238,235 shares of common stock was effected through a registration statement on Form S-1 (Registration Nos. 333-213773 and 333-214179), which was declared effective on October 19, 2016. Our initial public offering closed on October 25, 2016 and resulted in net proceeds of approximately \$110.9 million, after deducting underwriting discounts and commissions of approximately \$8.6 million and other expenses of approximately \$3.5 million. No payments for such expenses were made directly or indirectly to any of our officers or directors.

J.P. Morgan Securities LLC, Morgan Stanley & Co. LLC, Canaccord Genuity Inc. and BTIG, LLC acted as the underwriters. There has been no material change in the planned use of proceeds from our initial public offering as described in our final prospectus filed with the SEC on October 20, 2016.

ITEM 3. DEFAULTS UPON SENIOR SECURITIES.

Not applicable.

ITEM 4. MINE SAFETY DISCLOSURES.

Not applicable.

ITEM 5. OTHER INFORMATION

Not applicable.

ITEM 6. EXHIBITS

The exhibits listed in the accompanying exhibit index are filed as part of, and incorporated by reference into, this Quarterly Report on Form 10-Q.

EXHIBIT INDEX

Exhibit Number	Description
10.29	Form of Change of Control and Severance Agreement.
31.1	Certification of Principal Executive Officer pursuant to Securities Exchange Act Rules 13a-14(a) and 15d-14(a), as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
31.2	Certification of Principal Financial Officer pursuant to Securities Exchange Act Rules 13a-14(a) and 15d-14(a), as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
32.1*	Certification of Chief Executive Officer and Chief Financial Officer 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

* The certifications filed as Exhibits 32.1 are not deemed “filed” for purposes of Section 18 of the Securities Exchange Act of 1934 and are not to be incorporated by reference into any filing of the Company under the Securities Exchange Act of 1933 or the Securities Exchange Act of 1934, whether made before or after the date hereof irrespective of any general incorporation by reference language contained in any such filing, except to the extent that the registrant specifically incorporates it by reference.

SIGNATURES

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

iRhythm Technologies, Inc.

Date: November 14, 2017

By: /s/ Kevin M. King

Kevin M. King
President and Chief Executive Officer
(Principal Executive Officer)

Date: November 14, 2017

By: /s/ Matthew C. Garrett

Matthew C. Garrett
Chief Financial Officer
(Principal Financial Officer and Chief Accounting Officer)

IRHYTHM TECHNOLOGIES, INC.**CHANGE OF CONTROL AND SEVERANCE AGREEMENT**

This Change of Control and Severance Agreement (the “Agreement”) is made and entered into by and between [NAME] (“Executive”) and iRhythm Technologies, Inc. (the “Company”, and collectively with the Executive, the “Parties”) as of the date the Company and Executive have each executed this Agreement, as set forth below. The terms of this Agreement will become effective on the effective date of the first registration statement that is filed by the Company and declared effective pursuant to Section 12(g) of the Securities Exchange Act of 1934, as amended, with respect to any class of the Company’s securities (the “Effective Date”).

RECITALS

1. The Parties previously entered into a certain employment offer letter dated [DATE] (as amended, the “Offer Letter”) and a Change of Control Severance Agreement dated [DATE] (the “Prior Agreement”).

2. The Board of Directors of the Company (the “Board”) believes that it is in the best interests of the Company and its stockholders to provide Executive with severance benefits if Executive’s employment with the Company terminates for certain reasons in the ordinary course of business, and to provide Executive with additional severance benefits if such termination occurs following a Change of Control.

3. These severance benefits will provide Executive with enhanced financial security and incentive and encouragement to remain with the Company and to stay focused on the Company’s business.

4. Certain capitalized terms used in the Agreement are defined in Section [9/10] below.

AGREEMENT

NOW, THEREFORE, in consideration of the mutual covenants contained herein, the Parties hereto agree as follows:

5. Term of Agreement. This Agreement will have a term of two (2) years following the Effective Date. If Executive’s employment terminates for any reason during the term or if the Company experiences a Change of Control, including (without limitation) any termination not set forth in Section 6, Executive will not be entitled to any payments, benefits, damages, awards or compensation other than as provided by this Agreement, notwithstanding any provision to the contrary in the Offer Letter or any other prior agreement entered into by the Parties (including, but not limited to, any Equity Award agreements). Following the expiration of the two (2) year period without a written agreement by the Parties to renew or extend this Agreement, this Agreement will

terminate and cease to be of any force or effect. Notwithstanding the foregoing, in the event that the Company enters into an agreement or understanding regarding a Change of Control which limits its ability to extend this Agreement when there are fewer than twelve (12) months remaining in the term, the term of the Agreement will be extended through the twelve (12) month anniversary of such Change of Control.

6. Severance Benefits.

(a) Termination Outside the Change of Control Period. If, outside the Change of Control Period, the Company or its Affiliates terminate Executive's employment with the Company or its Affiliates, respectively, other than for Cause, death or Disability, or Executive resigns from such employment for Good Reason, then, subject to Section 7, Executive will receive the following severance benefits:

(i) Salary Severance. Continuing payments of severance pay at a rate equal to Executive's annual base salary, at the highest rate in effect during the term of this Agreement, for [Tier 1: eighteen (18) /Tier 2: nine (9) /Tier 3: six (6)] months from the date of Executive's termination of employment, which will be paid in accordance with the Company's regular payroll procedures.

(ii) Continued Employee Benefits. If Executive elects continuation coverage pursuant to the Consolidated Omnibus Budget Reconciliation Act of 1985, as amended ("COBRA") within the time period prescribed pursuant to COBRA for Executive and Executive's eligible dependents, the Company will pay Executive's group health insurance provider the premiums necessary to continue group health insurance benefits for Executive and Executive's eligible dependents (at the coverage levels in effect immediately prior to Executive's termination) until the earlier of (A) a period of [Tier 1: eighteen (18) /Tier 2: nine (9) /Tier 3: six (6)] months from the date of Executive's termination of employment, (B) the date upon which Executive and/or Executive's eligible dependents becomes covered under similar plans or (C) the date upon which Executive ceases to be eligible for coverage under COBRA (such payments, the "COBRA Premiums"). However, if the Company determines in its sole discretion that it cannot pay the COBRA Premiums without potentially violating applicable law (including, without limitation, Section 2716 of the Public Health Service Act), the Company will in lieu thereof provide to Executive a taxable monthly payment payable on the last day of a given month (except as provided by the following sentence), in an amount equal to the monthly COBRA premium that Executive would be required to pay to continue Executive's group health coverage in effect on the date of Executive's termination of employment (which amount will be based on the premium for the first month of COBRA coverage), which payments will be made regardless of whether Executive elects COBRA continuation coverage and will commence on the month following Executive's termination of employment and will end on the earlier of (x) the date upon which Executive obtains other employment or (y) the date the Company has paid an amount equal to [Tier 1: eighteen (18) /Tier 2: nine (9) /Tier 3: six (6)] payments. For the avoidance of doubt, the taxable payments in lieu of COBRA Premiums may be used for any purpose, including, but not limited to continuation coverage under COBRA, and will be subject to all applicable tax withholdings. Notwithstanding anything to

the contrary under this Agreement, if at any time the Company determines in its sole discretion that it cannot provide the payments contemplated by the preceding sentence without violating applicable law (including, without limitation, Section 2716 of the Public Health Service Act), Executive will not receive such payment or any further reimbursements for COBRA premiums.

(iii) [Tier 1: Extension of Exercise Period for Vested Stock Options: Notwithstanding any other provision in any applicable equity compensation plan and/or individual stock option agreement, Executive's outstanding and vested Original Options as of the Executive's termination of employment date will remain exercisable until the eighteen (18) month anniversary of the termination of employment date; provided, however, that the post-termination exercise period for either Original Option will not extend beyond the earlier of its original maximum term or the tenth (10th) anniversary of the original date of grant.]

(b) Termination within the Change of Control Period. If, within the Change of Control Period, the Company or its Affiliates terminate Executive's employment with the Company or its Affiliates, respectively, other than for Cause, death or Disability or Executive resigns from such employment for Good Reason, then, subject to Section [8/9], Executive will receive the following severance benefits from the Company:

(i) Salary Severance. A lump sum severance payment equal to [Tier 1: twenty-four (24) /Tier 2: fifteen (15) /Tier 3: nine (9)] months of Executive's annual base salary, at the highest rate in effect during the term of this Agreement, which will be paid in accordance with the Company's regular payroll procedures. For the avoidance of doubt, if (A) Executive incurred a termination prior to a Change of Control that qualifies Executive for severance payments under Section 6(a)(i); and (y) a Change of Control occurs within the three (3)-month period following Executive's termination of employment that qualifies Executive for the superior benefits under this Section 6(b)(i), then Executive shall be entitled to a lump-sum payment of the amount calculated under this Section 6(b)(i), less amounts already paid under Section 6(a)(i).

(ii) Bonus Severance. Executive will receive a lump-sum payment, payable in accordance with the Company's regular payroll procedures, equal to [Tier 1 & Tier 2: one hundred percent (100%) /Tier 3: seventy-five percent (75%)] of Executive's target bonus as in effect for the fiscal year in which Executive's termination of employment occurs. For avoidance of doubt, the amount paid to Executive pursuant to this Section 6(b)(ii) will not be prorated based on the actual amount of time Executive is employed by the Company during the fiscal year (or the relevant performance period if something different than a fiscal year) during which the termination occurs.

(iii) Continued Employee Benefits. If Executive elects continuation coverage pursuant to COBRA within the time period prescribed pursuant to COBRA for Executive and Executive's eligible dependents, the Company will pay Executive's group health insurance provider the premiums necessary to continue group health insurance benefits for Executive and Executive's eligible dependents (at the coverage levels in effect immediately prior to Executive's termination) until the earlier of (A) a period of [Tier 1: twenty-four (24) /Tier 2: fifteen (15) /Tier 3: nine (9)] months from the date of Executive's termination of employment, (B) the date upon which

Executive and/or Executive's eligible dependents becomes covered under similar plans or (C) the date upon which Executive ceases to be eligible for coverage under COBRA (such payments, the "COC Premiums"). However, if the Company determines in its sole discretion that it cannot pay the COC Premiums without potentially violating applicable law (including, without limitation, Section 2716 of the Public Health Service Act), the Company will in lieu thereof provide to Executive a taxable monthly payment payable on the last day of a given month (except as provided by the following sentence), in an amount equal to the monthly COBRA premium that Executive would be required to pay to continue Executive's group health coverage in effect on the date of Executive's termination of employment (which amount will be based on the premium for the first month of COBRA coverage), which payments will be made regardless of whether Executive elects COBRA continuation coverage and will commence on the month following Executive's termination of employment and will end on the earlier of (x) the date upon which Executive obtains other employment or (y) the date the Company has paid an amount equal to [Tier 1: twenty-four (24) /Tier 2: fifteen (15) /Tier 3: nine (9)] payments. For the avoidance of doubt, the taxable payments in lieu of COBRA Premiums may be used for any purpose, including, but not limited to continuation coverage under COBRA, and will be subject to all applicable tax withholdings. Notwithstanding anything to the contrary under this Agreement, if at any time the Company determines in its sole discretion that it cannot provide the payments contemplated by the preceding sentence without violating applicable law (including, without limitation, Section 2716 of the Public Health Service Act), Executive will not receive such payment or any further reimbursements for COBRA premiums.

(iv) Equity. Executive will be entitled to accelerated vesting as one hundred percent (100%) of the then unvested portion of all of Executive's outstanding Equity Awards. If, however, an outstanding Equity Award is to vest and/or the amount of the Equity Award to vest is to be determined based on the achievement of performance criteria, then the Equity Award will vest as to one hundred percent (100%) of the amount of the Equity Award assuming the performance criteria had been achieved at target levels for the relevant performance period(s).

(v) [Tier 1: Extension of Exercise Period for Vested Stock Options: Notwithstanding any other provision in any applicable equity compensation plan and/or individual stock option agreement, Executive's outstanding and vested Original Options as of the Executive's termination of employment date will remain exercisable until the eighteen (18) month anniversary of the termination of employment date; provided, however, that the post-termination exercise period for either Original Option will not extend beyond the earlier of its original maximum term or the tenth (10th) anniversary of the original date of grant.]

(c) Voluntary Resignation; Termination for Cause. If Executive's employment with the Company or its Affiliates terminates (i) voluntarily by Executive (other than for Good Reason) or (ii) for Cause by the Company, then Executive will not be entitled to receive severance or other benefits except for those (if any) as may then be established under the Company's then existing severance and benefits plans and practices.

(d) Disability; Death. If the Company terminates Executive's employment as a result of Executive's Disability, or Executive's employment terminates due to Executive's death, then Executive will not be entitled to receive severance or other benefits except for those (if any) as may then be established under the Company's then existing written severance and benefits plans and practices.

(e) Accrued Compensation. For the avoidance of any doubt, in the event of a termination of Executive's employment with the Company or its Affiliates, Executive will be entitled to receive all accrued but unpaid vacation, expense reimbursements, wages, and other benefits due to Executive under any Company-provided plans, policies, and arrangements.

(f) Transfer between the Company and Affiliates. For purposes of this Section 6, if Executive's employment with the Company or one of its Affiliates terminates, Executive will not be determined to have been terminated other than for Cause, provided Executive continues to remain employed by the Company or one of its Affiliates (e.g., upon transfer from one Affiliate to another); provided, however, that the parties understand and acknowledge that any such termination could potentially result in Executive's ability to resign for Good Reason.

(g) Exclusive Remedy. In the event of a termination of Executive's employment with the Company or its Affiliates, the provisions of this Section 6 are intended to be and are exclusive and in lieu of any other rights or remedies to which Executive or the Company may otherwise be entitled, whether at law, tort or contract, in equity. Executive will be entitled to no benefits, compensation or other payments or rights upon termination of employment or in connection with a Change of Control other than those benefits expressly set forth in this Section 6.

7. Conditions to Receipt of Severance.

(a) Separation Agreement and Release of Claims. The receipt of any severance pursuant to Sections 6(a) or (b) will be subject to Executive signing and not revoking a separation agreement and release of claims in a form reasonably satisfactory to the Company (the "Release") and provided that such Release becomes effective and irrevocable no later than sixty (60) days following the termination date (such deadline, the "Release Deadline"). If the Release does not become effective and irrevocable by the Release Deadline, Executive will forfeit any rights to severance or benefits under this Agreement. In no event will severance payments or benefits be paid or provided until the Release becomes effective and irrevocable. Except as required by Section 7(b), any severance payments or benefits under this Agreement will be paid on, or, in the case of installments, will not commence until, a date within the ten (10) business day period following the date the Release becomes effective and irrevocable. Except as required by Section 7(b), any installment payments that would have been made to Executive prior to the Release becoming effective and irrevocable but for the preceding sentence will be paid to Executive within ten (10) business days following the date the Release becomes effective and irrevocable, and the remaining payments will be made as provided in the Agreement.

(b) Section 409A.

(i) Notwithstanding anything to the contrary in this Agreement, no Deferred Payments will be paid or otherwise provided until Executive has a “separation from service” within the meaning of Section 409A. Similarly, no severance payable to Executive, if any, pursuant to this Agreement that otherwise would be exempt from Section 409A pursuant to Treasury Regulation Section 1.409A-1(b)(9) will be payable until Executive has a “separation from service” within the meaning of Section 409A.

(ii) Any severance payments or benefits under this Agreement that would be considered Deferred Payments will be paid on, or, in the case of installments, will not commence until, the sixtieth (60th) day following Executive’s separation from service, or, if later, such time as required by Section 7(b)(iii). Except as required by Section 7(b)(iii), any installment payments that constitute Deferred Payments that would have been made to Executive during the sixty (60) day period immediately following Executive’s separation from service but for the preceding sentence will be paid to Executive on the sixtieth (60th) day following Executive’s separation from service and the remaining payments shall be made as provided in this Agreement. In no event will Executive have discretion to determine the taxable year of payment for any Deferred Payments.

(iii) Notwithstanding anything to the contrary in this Agreement, if Executive is a “specified employee” within the meaning of Section 409A at the time of Executive’s separation from service (other than due to death), then the Deferred Payments that are payable within the first six (6) months following Executive’s separation from service, will, to the extent required to be delayed pursuant to Section 409A(a)(2)(B) of the Code, become payable on the date six (6) months and one (1) day following the date of Executive’s separation from service. All subsequent Deferred Payments, if any, will be payable in accordance with the payment schedule applicable to each payment or benefit. Notwithstanding anything herein to the contrary, if Executive dies following Executive’s separation from service, but prior to the six (6) month anniversary of the separation from service, then any payments delayed in accordance with this paragraph will be payable in a lump sum as soon as administratively practicable after the date of Executive’s death and all other Deferred Payments will be payable in accordance with the payment schedule applicable to each payment or benefit. Each payment and benefit payable under this Agreement is intended to constitute a separate payment for purposes of Section 1.409A-2(b)(2) of the Treasury Regulations.

(iv) Any amount paid under this Agreement that satisfies the requirements of the “short-term deferral” rule set forth in Section 1.409A-1(b)(4) of the Treasury Regulations will not constitute Deferred Payments.

(v) Any amount paid under this Agreement that qualifies as a payment made as a result of an involuntary separation from service pursuant to Section 1.409A-1(b)(9)(iii) of the Treasury Regulations that does not exceed the Section 409A Limit (as defined below) will not constitute Deferred Payments.

(vi) The foregoing provisions and all compensation and benefits provided for under this Agreement are intended to comply with or be exempt from the requirements of Section 409A so that none of the severance payments and benefits to be provided hereunder will be subject to the additional tax imposed under Section 409A, and any ambiguities or ambiguous terms herein will be interpreted to be exempt or so comply. The Company and Executive agree to work together in good faith to consider amendments to this Agreement and to take such reasonable actions which are necessary, appropriate or desirable to avoid imposition of any additional tax or income recognition prior to actual payment to Executive under Section 409A. In no event will the Company reimburse Executive for any taxes that may be imposed on Executive as a result of Section 409A.

8. Tier 1: Treatment of Original Options in the Event of a Change of Control. In the event of a Change of Control where the Aggregate Amount is equal to or greater than \$400,000,000, and provided Executive remains an employee of the Company or an Affiliate through the date of such Change of Control, Executive's Original Options, to the extent unvested and outstanding on the date of such Change of Control, will accelerate and vest as to twenty-five percent (25%) of the total number of shares subject to the Original Options (provided that if fewer than twenty-five percent (25%) of the total number of shares subject to the Original Options remain unvested and outstanding, all such remaining unvested shares will vest). For the avoidance of any doubt, the remaining shares subject to the Original Options will continue to vest in accordance with the terms and conditions of the Original Options as if the shares that vested in connection with the Change of Control came from the shares subject to the Original Options that would have vested at the end of each Original Option's vesting schedule. For the further avoidance of any doubt, if any stock options held by Executive, including the Original Options, are not assumed or substituted for in connection with a Change of Control, 100% of the shares subject to such stock options, to the extent outstanding and unvested, will fully vest and become exercisable pursuant to the terms and conditions of the 2006 Stock Plan, as amended.]

9. ¹ Limitation on Payments. In the event that the severance and other benefits provided for in this Agreement or otherwise payable to Executive (i) constitute "parachute payments" within the meaning of Section 280G of the Internal Revenue Code of 1986, as amended (the "Code") and (ii) but for this Section [8/9], would be subject to the excise tax imposed by Section 4999 of the Code, then Executive's severance benefits under Section 6 will be either:

(a) delivered in full, or

(b) delivered as to such lesser extent which would result in no portion of such severance benefits being subject to excise tax under Section 4999 of the Code,

¹ For Mr. King/Tier 1, this will be Section 9 due to the immediately preceding "Treatment of Original Options in the event of a Change in Control." For others it will be Section 8 and any bracketed section references will need to change to reflect the removal of Mr. King's Section 8.

whichever of the foregoing amounts, taking into account the applicable federal, state and local income taxes and the excise tax imposed by Section 4999 of the Code, results in the receipt by Executive on an after-tax basis, of the greatest amount of severance benefits, notwithstanding that all or some portion of such severance benefits may be taxable under Section 4999 of the Code. If a reduction in severance and other benefits constituting “parachute payments” is necessary so that benefits are delivered to a lesser extent, reduction will occur in the following order: (i) reduction of cash payments; (ii) cancellation of awards granted “contingent on a change in ownership or control” (within the meaning of Code Section 280G); (iii) cancellation of accelerated vesting of Equity Awards; or (iv) reduction of employee benefits. In the event that acceleration of vesting of Equity Award compensation is to be reduced, such acceleration of vesting will be cancelled in the reverse order of the date of grant of the Equity Awards.

Unless the Company and Executive otherwise agree in writing, any determination required under this Section will be made in writing by a nationally recognized certified professional services firm selected by the Company, the Company’s legal counsel or such other person or entity to which the parties mutually agree (the “Firm”) immediately prior to Change of Control, whose determination will be conclusive and binding upon Executive and the Company for all purposes. For purposes of making the calculations required by this Section, the Firm may make reasonable assumptions and approximations concerning applicable taxes and may rely on reasonable, good faith interpretations concerning the application of Sections 280G and 4999 of the Code. The Company and Executive will furnish to the Firm such information and documents as the Accountants may reasonably request in order to make a determination under this Section. The Company will bear all costs the Firm may reasonably incur in connection with any calculations contemplated by this Section.

10. Definition of Terms. The following terms referred to in this Agreement will have the following meanings:

(a) Affiliate. “Affiliate” means the Company and any other parent or subsidiary corporation of the Company, as such terms are defined in Section 424(e) and (1) of the Code.

(b) Cause. “Cause” means (i) Executive’s conviction of, or plea of guilty or nolo contendere to, a felony or a crime involving moral turpitude; (ii) Executive’s admission or conviction of, or plea of guilty or nolo contendere to, an intentional act of fraud, embezzlement or theft in connection with Executive’s duties or in the course of employment with the Company or an Affiliate; (iii) Executive’s intentional wrongful damage to property of the Company or an Affiliate; (iv) intentional unauthorized or wrongful use or disclosure of secret processes or of proprietary or confidential information of the Company or an Affiliate (or any other party to whom Executive owes an obligation of nonuse or nondisclosure as a result of Executive’s employment relationship with the Company or an Affiliate), including but not limited to trade secrets and customer lists; (iv) Executive’s violation of any agreement not to compete with the Company or an Affiliate or to solicit either its customers or employees on behalf of competitors while remaining employed with the Company or an Affiliate; (v) Executive’s intentional violation of any policy or policies regarding ethical conduct; (vi) an act of dishonesty made by Executive in connection with Executive’s responsibilities as an employee which materially harms the Company or an Affiliate, or (vii)

Executive's intentional or continued failure to perform Executive's duties with the Company or an Affiliate, as determined in good faith by the Company or an Affiliate after being provided with notice of such failure, such notice specifying in reasonable detail the tasks which must be accomplished and a timeline for the accomplishment to avoid termination for Cause, and an opportunity to cure within thirty (30) days of receipt of such notice.

(c) Change of Control. "Change of Control" means the occurrence of any of the following events:

(i) A change in the ownership of the Company which occurs on the date that any one person, or more than one person acting as a group ("Person"), acquires ownership of the stock of the Company that, together with the stock held by such Person, constitutes more than fifty percent (50%) of the total voting power of the stock of the Company; provided, however, that for purposes of this subsection, the acquisition of additional stock by any one Person, who is considered to own more than fifty percent (50%) of the total voting power of the stock of the Company will not be considered a Change of Control; or

(ii) Any action or event occurring within an one-year period, as a result of which less than a majority of the members of the Board are Incumbent Directors. "Incumbent Directors" will mean members of the Board who either (A) are members of the Board as of the date hereof, or (B) are elected, or nominated for election, to the Board with the affirmative votes of a majority of the Incumbent Directors at the time of such election or nomination (but will not include an individual whose election or nomination is in connection with an actual or threatened proxy contest relating to the election of members of the Board) ; or

(iii) A change in the ownership of a substantial portion of the Company's assets which occurs on the date that any Person acquires (or has acquired during the twelve (12) month period ending on the date of the most recent acquisition by such person or persons) assets from the Company that have a total gross fair market value equal to or more than fifty percent (50%) of the total gross fair market value of all of the assets of the Company immediately prior to such acquisition or acquisitions; provided, however, that for purposes of this subsection (iii), the following will not constitute a change in the ownership of a substantial portion of the Company's assets: (A) a transfer to an entity that is controlled by the Company's stockholders immediately after the transfer, or (B) a transfer of assets by the Company to: (1) a stockholder of the Company (immediately before the asset transfer) in exchange for or with respect to the Company's stock, (2) an entity, fifty percent (50%) or more of the total value or voting power of which is owned, directly or indirectly, by the Company, (3) a Person, that owns, directly or indirectly, fifty percent (50%) or more of the total value or voting power of all the outstanding stock of the Company, or (4) an entity, at least fifty percent (50%) of the total value or voting power of which is owned, directly or indirectly, by a Person described in this subsection (iii)(B)(3). For purposes of this subsection (iii), gross fair market value means the value of the assets of the Company, or the value of the assets being disposed of, determined without regard to any liabilities associated with such assets.

For purposes of this definition, persons will be considered to be acting as a group if they are owners of a corporation that enters into a merger, consolidation, purchase or acquisition of stock, or similar business transaction with the Company.

Notwithstanding the foregoing, a transaction will not be deemed a Change of Control unless the transaction qualifies as a change in control event within the meaning of Code Section 409A, as it has been and may be amended from time to time, and any proposed or final Treasury Regulations and Internal Revenue Service guidance that has been promulgated or may be promulgated thereunder from time to time.

Further and for the avoidance of doubt, a transaction will not constitute a Change of Control if: (i) its sole purpose is to change the state of the Company's incorporation, or (ii) its sole purpose is to create a holding company that will be owned in substantially the same proportions by the persons who held the Company's securities immediately before such transaction.

(d) Change of Control Period. "Change of Control Period" means the period beginning on the date three (3) months prior to, and ending on the date that is twelve (12) months following, a Change of Control.

(e) Code. "Code" means the Internal Revenue Code of 1986, as amended.

(f) Deferred Payment. "Deferred Payment" means any severance pay or benefits to be paid or provided to Executive (or Executive's estate or beneficiaries) pursuant to this Agreement and any other severance payments or separation benefits, that in each case, when considered together, are considered deferred compensation under Section 409A.

(g) Disability. "Disability" means that the Executive has been unable to perform Executive's Company duties as the result of Executive's incapacity due to physical or mental illness, and such inability, at least twenty-six (26) weeks after its commencement or 180 days in any consecutive twelve (12) month period, is determined to be total and permanent by a physician selected by the Company or its insurers and acceptable to Executive or Executive's legal representative (such agreement as to acceptability not to be unreasonably withheld). Termination resulting from Disability may only be effected after at least thirty (30) days' written notice by the Company of its intention to terminate the Executive's employment. In the event that the Executive resumes the performance of substantially all of Executive's duties hereunder before the termination of Executive's employment becomes effective, the notice of intent to terminate will automatically be deemed to have been revoked.

(h) Equity Awards. "Equity Awards" means Executive's outstanding stock options, stock appreciation rights, restricted stock, restricted stock units, performance shares, performance stock units and any other Company equity compensation awards.

(i) Good Reason. “Good Reason” means Executive’s resignation within thirty (30) days following the expiration of any Company cure period (discussed below) following the occurrence of one or more of the following, without Executive’s express written consent: (i) a material reduction by the Company of Executive’s base salary in effect immediately prior to such reduction; (ii) a material reduction of Executive’s duties or responsibilities relative to Executive’s duties or responsibilities in effect immediately prior to such reduction; or (iii) Executive’s relocation at the Company’s direction to a facility or location more than fifty (50) miles from Executive’s then present location of providing services. Executive’s resignation will not be deemed to be for Good Reason unless Executive has first provided the Company with written notice of the acts or omissions constituting the grounds for “Good Reason” within ninety (90) days of the initial existence of the grounds for “Good Reason” and a reasonable cure period of not less than thirty (30) days following the date the Company receives such notice, and such condition has not been cured during such period .

(j) [Tier 1: Original Options. “Original Options” means the initial stock option granted to Executive on September 27, 2012 to purchase a number of shares of common stock of the Company equal to five percent (5%) of the shares of the Company, and the supplemental stock option granted to Executive on June 13, 2013 to purchase a number of shares of common stock of the Company equal to the sum of (i) five percent (5%) of the shares of the Company on a fully diluted basis *less* (ii) the shares subject to the initial stock option, each as set forth in the Offer Letter.]

(k) Section 409A. For purposes of this Agreement, “Section 409A” means Section 409A of the Code and any final regulations and guidance thereunder and any applicable state law equivalent, as each may be amended or promulgated from time to time.

(l) Section 409A Limit. For purposes of this Agreement, “Section 409A Limit ” will mean two (2) times the lesser of: (i) Executive’s annualized compensation based upon the annual rate of pay paid to Executive during the Executive’s taxable year preceding the Executive’s taxable year of Executive’s separation from service as determined under Treasury Regulation Section 1.409A-1(b)(9)(iii)(A)(1) and any Internal Revenue Service guidance issued with respect thereto; or (ii) the maximum amount that may be taken into account under a qualified plan pursuant to Section 401(a)(17) of the Internal Revenue Code for the year in which Executive’s separation from service occurred

11. Successors.

(a) The Company’s Successors. Any successor to the Company (whether direct or indirect and whether by purchase, merger, consolidation, liquidation or otherwise) to all or substantially all of the Company’s business and/or assets will assume the obligations under this Agreement and agree expressly to perform the obligations under this Agreement in the same manner and to the same extent as the Company would be required to perform such obligations in the absence of a succession. For all purposes under this Agreement, the term “Company” will include any successor to the Company’s business and/or assets which executes and delivers the assumption agreement described in this Section or which becomes bound by the terms of this Agreement by operation of law.

(b) Executive's Successors. The terms of this Agreement and all rights of Executive hereunder will inure to the benefit of, and be enforceable by, Executive's personal or legal representatives, executors, administrators, successors, heirs, distributees, devisees and legatees.

12. Notice.

(a) General. All notices and other communications required or permitted hereunder shall be in writing and shall be deemed effectively given (i) upon actual delivery to the party to be notified, (ii) twenty four (24) hours after confirmed facsimile transmission, (iii) one business day after deposit with a recognized overnight courier or (iv) three business days after deposit with the U.S. Postal Service by first class certified or registered mail, return receipt requested, postage prepaid, addressed (a) if to Executive, at the address Executive shall have most recently furnished to the Company in writing, (b) if to the Company, at the following address:

iRhythm Technologies, Inc.
650 Townsend Street, Suite 500
San Francisco, California 94063
Attention: [General Counsel]

(b) Notice of Termination. Any termination by the Company for Cause or by Executive for Good Reason will be communicated by a notice of termination to the other party hereto given in accordance with Section [11/12(a)] of this Agreement. Such notice will indicate the specific termination provision in this Agreement relied upon, will set forth in reasonable detail the facts and circumstances claimed to provide a basis for termination under the provision so indicated, and will specify the termination date (which will be not more than thirty (30) days after the giving of such notice). The failure by Executive to include in the notice any fact or circumstance which contributes to a showing of Good Reason will not waive any right of Executive hereunder or preclude Executive from asserting such fact or circumstance in enforcing Executive's rights hereunder.

13. Resignation. Upon the termination of Executive's employment for any reason, Executive will be deemed to have resigned from all officer and/or director positions held at the Company and its Affiliates voluntarily, without any further required action by Executive, as of the end of Executive's employment and Executive, at the Board's request, will execute any documents reasonably necessary to reflect Executive's resignation.

14. Miscellaneous Provisions.

(a) No Duty to Mitigate. Executive will not be required to mitigate the amount of any payment contemplated by this Agreement, nor will any such payment be reduced by any earnings that Executive may receive from any other source.

(b) Waiver. No provision of this Agreement will be modified, waived or discharged unless the modification, waiver or discharge is agreed to in writing and signed by Executive and by an authorized officer of the Company (other than Executive). No waiver by either party of any breach of, or of compliance with, any condition or provision of this Agreement by the other party will be considered a waiver of any other condition or provision or of the same condition or provision at another time.

(c) Headings. All captions and section headings used in this Agreement are for convenient reference only and do not form a part of this Agreement.

(d) Entire Agreement. This Agreement, together with the terms of the Offer Letter and any Equity Award or Equity Award agreements that do not pertain to the provision of payments or benefits in connection with a termination of employment and/or an event that constitutes a Change of Control, constitutes the entire agreement of the parties hereto and supersedes in their entirety all prior representations, understandings, undertakings or agreements (whether oral or written and whether expressed or implied) of the parties with respect to the subject matter hereof, including, but not limited to, the Prior Agreement and terms within the Offer Letter that provide for payments or benefits in connection with a termination of employment and/or an event that constitutes a Change of Control. No waiver, alteration, or modification of any of the provisions of this Agreement will be binding unless in writing and signed by duly authorized representatives of the parties hereto and which specifically mention this Agreement.

(e) Choice of Law. The validity, interpretation, construction and performance of this Agreement will be governed by the laws of the State of California (with the exception of its conflict of laws provisions). Any claims or legal actions by one party against the other arising out of the relationship between the parties contemplated herein (whether or not arising under this Agreement) will be commenced or maintained in any state or federal court located in the jurisdiction where Executive resides, and Executive and the Company hereby submit to the jurisdiction and venue of any such court.

(f) Severability. The invalidity or unenforceability of any provision or provisions of this Agreement will not affect the validity or enforceability of any other provision hereof, which will remain in full force and effect.

(g) Withholding. All payments made pursuant to this Agreement will be subject to withholding of applicable income and employment taxes.

(h) Counterparts. This Agreement may be executed in counterparts, each of which will be deemed an original, but all of which together will constitute one and the same instrument.

IN WITNESS WHEREOF, each of the parties has executed this Agreement, in the case of the Company by its duly authorized officer, as of the day and year set forth below.

COMPANY

IRHYTHM TECHNOLOGIES, INC.

By: _____/s/

Title: _____

EXECUTIVE

_____/s/
[NAME]

[Signature Page to Change of Control and Severance Agreement]

CERTIFICATION OF CHIEF EXECUTIVE OFFICER

Pursuant to
 Securities Exchange Act Rules 13a-14(a) and 15d-14(a),
 As Adopted Pursuant to
 Section 302 of the Sarbanes-Oxley Act of 2002

I, Kevin M. King, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of iRhythm Technologies, Inc.;
2. 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(s) 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)) for the registrant and we 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. 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
 - c. 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 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(s) 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/ Kevin M. King

Kevin M. King

President, Chief Executive Officer and Director
 (Principal Executive Officer)

Date: November 14, 2017

CERTIFICATION OF CHIEF FINANCIAL OFFICER

Pursuant to
Securities Exchange Act Rules 13a-14(a) and 15d-14(a),
As Adopted Pursuant to
Section 302 of the Sarbanes-Oxley Act of 2002

I, Matthew C. Garrett, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of iRhythm Technologies, Inc.;
2. 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(s) 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)) for the registrant and we 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. 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
 - c. 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 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(s) 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/ Matthew C. Garrett

Matthew C. Garrett
Chief Financial Officer
(Principal Financial and Accounting Officer)

Date: November 14, 2017

CERTIFICATIONS OF CHIEF EXECUTIVE OFFICER AND CHIEF FINANCIAL OFFICER
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 Quarterly Report of iRhythm Technologies, Inc. (the “Company”) on Form 10-Q for the period ended September 30, 2017, as filed with the Securities and Exchange Commission (the “Report”), Kevin M. King, as Chief Executive Officer of the Company, and Matthew Garrett, as Chief Financial Officer of the Company, each hereby certifies, pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (18 U.S.C. Section 1350), to his knowledge:

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

/s/ Kevin M. King

Kevin M. King

President, Chief Executive Officer and Director
(Principal Executive Officer)

Date: November 14, 2017

/s/ Matthew C. Garrett

Matthew C. Garrett

Chief Financial Officer
(Principal Financial and Accounting Officer)

Date: November 14, 2017

This certification accompanies the Form 10-Q to which it relates, is not deemed filed with the Securities and Exchange Commission and is not to be incorporated by reference into any filing of iRhythm Technologies, Inc. under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended (whether made before or after the date of the Form 10-Q), irrespective of any general incorporation language contained in such filing.