UNITED STATES SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, DC 20549

FORM 10-Q

			=	
(Maı ⊠	rk One) QUARTERLY REPORT PURSUANT TO 1934	SECTION 13 OR 15(d) (OF THE SECURITIES EXCHANGE ACT	Г ОБ
	FOR THE	QUARTERLY PERIOD ENDE) June 30, 2019	
	TRANSITION REPORT PURSUANT TO 1934	SECTION 13 OR 15(d) (OF THE SECURITIES EXCHANGE AC	T OF
	FOR THE TRANS	SITION PERIOD FROM	то	
		Commission file number: 001-33	3185	
		EDICINOVA, I		
	Delaware (State or Other Jurisdiction of Incorporation or Organization)		- 33-0927979 (I.R.S. Employer Identification No.)	
	4275 Executive Square, Suite 300 La Jolla, CA (Address of Principal Executive Offices)		92037 (Zip Code)	
	(Registr	(858) 373-1500 ant's Telephone Number, Including	Area Code)	
Secu	rities registered pursuant to Section 12(b) of the Act:			
	Common Stock, \$0.001 par value	MNOV	The Nasdaq Stock Market LLC	
	(Title of each class)	(Trading symbol(s))	(Name of each exchange on which registered)	h
	Indicate by check mark whether the registrant: (1) has filed ding 12 months (or for such shorter period that the registrant vys. Yes ⊠ No □		` '	•
(§232	Indicate by check mark whether the registrant has submitte 2.405 of this chapter) during the preceding 12 months (or for s		•	gulation S-T
_	Indicate by check mark whether the registrant is a large accept the company. See the definitions of "accelerated filer", "large a lange Act.:			
Large	e accelerated filer		Accelerated filer	\boxtimes
Non-a	accelerated filer		Smaller reporting company	\boxtimes
			Emerging growth company	

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition accounting standards provided pursuant to Section 13(a) of the Exchange Act.	on period for complying with any new or revised financial $\hfill\Box$								
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 July 24, 2019, the registrant had 43,248,948 shares of Common Stock (\$0.001 par value) outstanding.									
2									

CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS

This quarterly report on Form 10-Q, in particular "Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations," and the information incorporated by reference herein contains "forward-looking statements". The forward-looking statements are contained principally in the sections titled "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations," but are also contained elsewhere in this report. Forward-looking statements include all statements that are not historical facts and, in some cases, can be identified by terms such as "believe," "may," "will," "estimate," "continue," "anticipate," "design," "intend," "expect," "could," "plan," "potential," "predict," "seek," "should," "would" or the negative version of these words and similar expressions.

Forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements, including those described in "Risk Factors" and elsewhere in this report. Given these uncertainties, you should not place undue reliance on these forward-looking statements. Also, forward-looking statements represent our beliefs and assumptions only as of the date of this report. Considering the significant uncertainties in these forward-looking statements, you should not regard these statements as a representation or warranty by us or any other person that we will achieve our objectives and plans in any specified time frame, or at all. You should read this report completely and with the understanding that our actual future results may be materially different from what we expect.

The following factors are among those that may cause actual results to differ materially from our forward-looking statements:

- Inability to raise additional capital if needed;
- Inability to generate revenues from product sales to continue business operations;
- Inability to develop and commercialize our product candidates;
- Failure or delay in completing clinical trials or obtaining Food and Drug Administration or foreign regulatory approval for our product candidates in a timely manner;
- Unsuccessful clinical trials stemming from clinical trial designs, failure to enroll a sufficient number of patients, undesirable side effects and other safety concerns;
- Inability to demonstrate sufficient efficacy of product candidates;
- Reliance on the success of our MN-166 (ibudilast) and MN-001 (tipelukast) product candidates;
- Delays in commencement or completion of clinical trials or suspension or termination of clinical trials;
- Loss of our licensed rights to develop and commercialize a product candidate as a result of the termination of the underlying licensing agreement;
- Competitors may develop products rendering our product candidates obsolete and noncompetitive;
- Inability to successfully attract partners and enter into collaborations on acceptable terms;
- Dependence on third parties to conduct clinical trials and to manufacture product candidates;
- Dependence on third parties to market and distribute products;
- Our product candidates, if approved, may not gain market acceptance or obtain adequate coverage for third party reimbursement;
- Disputes or other developments concerning our intellectual property rights;
- Actual and anticipated fluctuations in our quarterly or annual operating results;
- Price and volume fluctuations in the overall stock markets;
- Litigation or public concern about the safety of our potential products;
- International trade or foreign exchange restrictions, increased tariffs, foreign currency exchange;
- High quality material for our products may become difficult to obtain or expensive;
- Strict government regulations on our business;
- Regulations governing the production or marketing of our product candidates;

- Loss of, or inability to attract, key personnel; and
- Economic, political, foreign exchange and other risks associated with international operations.

MEDICINOVA, INC.

TABLE OF CONTENTS

PART I. FINAL	NCIAL INFORMATION	6
ITEM 1.	CONSOLIDATED FINANCIAL STATEMENTS (unaudited)	6
ITEM 2.	MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS	16
ITEM 3.	QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK	20
ITEM 4.	CONTROLS AND PROCEDURES	20
PART II. OTHI	ER INFORMATION	22
ITEM 1.	<u>LEGAL PROCEEDINGS</u>	22
ITEM 1A.	RISK FACTORS	22
ITEM 2.	UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS	22
ITEM 3.	DEFAULTS UPON SENIOR SECURITIES	22
ITEM 4.	MINE SAFETY DISCLOSURES	22
ITEM 5.	<u>OTHER INFORMATION</u>	22
ITEM 6.	<u>EXHIBITS</u>	22
SIGNATURES		23

PART I. FINANCIAL INFORMATION

ITEM 1. CONSOLIDATED FINANCIAL STATEMENTS.

MEDICINOVA, INC.

CONSOLIDATED BALANCE SHEETS

		June 30, 2019 (Unaudited)	 December 31, 2018
Assets			
Current assets:			
Cash and cash equivalents	\$	61,737,842	\$ 62,313,418
Prepaid expenses and other current assets		512,614	444,942
Total current assets		62,250,456	62,758,360
Goodwill		9,600,240	9,600,240
In-process research and development		4,800,000	4,800,000
Property and equipment, net		44,927	53,134
Other non-current assets		456,072	10,958
Total assets	\$	77,151,695	\$ 77,222,692
Liabilities and Stockholders' Equity	-		
Current liabilities:			
Accounts payable	\$	328,161	\$ 616,753
Accrued expenses and other liabilities		1,461,696	1,575,161
Total current liabilities		1,789,857	 2,191,914
Long-term deferred revenue		1,694,163	1,694,163
Deferred tax liability		201,792	201,792
Other non-current liabilities		284,273	27,211
Total liabilities		3,970,085	4,115,080
Commitments and contingencies		_	
Stockholders' equity:			
Common stock, \$0.001 par value; 100,000,000 shares authorized at June 30, 2019 and December 31, 2018; 43,099,161 and 42,081,306 shares issued and outstanding at June 30, 2019 and			
December 31, 2018, respectively		43,099	42,081
Additional paid-in capital		437,940,440	429,289,968
Accumulated other comprehensive loss		(91,576)	(93,150)
Accumulated deficit		(364,710,353)	 (356,131,287)
Total stockholders' equity		73,181,610	73,107,612
Total liabilities and stockholders' equity	\$	77,151,695	\$ 77,222,692

MEDICINOVA, INC. CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE LOSS (Unaudited)

	Three months ended June 30,					ded		
		2019		2018	2019			2018
Operating expenses:								
Research, development and patents	\$	1,465,512	\$	1,379,454	\$	3,099,390	\$	3,041,300
General and administrative		2,716,509		2,020,828		6,061,990		5,025,563
Total operating expenses		4,182,021		3,400,282		9,161,380		8,066,863
Operating loss		(4,182,021)		(3,400,282)		(9,161,380)		(8,066,863)
Interest income		307,574		250,231		611,819		381,576
Other income (expense)		(7,429)		5,912		(29,505)		(1,903)
Net loss applicable to common stockholders	\$	(3,881,876)	\$	(3,144,139)	\$	(8,579,066)	\$	(7,687,190)
Basic and diluted net loss per common share	\$	(0.09)	\$	(0.08)	\$	(0.20)	\$	(0.19)
Shares used to compute basic and diluted net								
loss per common share		43,069,007		41,557,644		42,770,117		40,351,585
Net loss applicable to common stockholders	\$	(3,881,876)	\$	(3,144,139)	\$	(8,579,066)	\$	(7,687,190)
Other comprehensive loss, net of tax:								
Foreign currency translation adjustments		3,355		(4,015)		1,574		1,817
Comprehensive loss	\$	(3,878,521)	\$	(3,148,154)	\$	(8,577,492)	\$	(7,685,373)

MEDICINOVA, INC. CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY (Unaudited)

_	Six Months Ended June 30, 2019										
	Common stock				Accumulated Additional other paid-in comprehensive			Accumulated			Total ockholders'
	Shares		Amount		capital	income (loss)		deficit		equity	
Balance at December 31, 2018	42,081,306	\$	42,081	\$	429,289,968	\$	(93,150)	\$	(356,131,287)	\$	73,107,612
Share-based compensation	_				2,699,500		· —				2,699,500
Issuance of shares under an employee stock purchase plan (ESPP)	2,401		2		16,901		_		_		16,903
Issuance of common stock, net of offering costs	_		_		(8,532)		_		_		(8,532)
Issuance of common stock for option exercises	977,454		978		3,919,757		_		_		3,920,735
Net loss	_		_		_		_		(4,697,190)		(4,697,190)
Foreign currency translation adjustments	_		_		_		(1,781)				(1,781)
Balance at March 31, 2019	43,061,161		43,061		435,917,594		(94,931)		(360,828,477)		75,037,247
Share-based compensation					1,842,514						1,842,514
Issuance of common stock for option exercises	38,000		38		180,332		_		_		180,370
Net loss	_		_		_		_		(3,881,876)		(3,881,876)
Foreign currency translation adjustments	_		_		_		3,355				3,355
Balance at June 30, 2019	43,099,161	\$	43,099	\$	437,940,440	\$	(91,576)	\$	(364,710,353)	\$	73,181,610

	Six Months Ended June 30, 2018										
	Common stock				Additional paid-in		Accumulated other omprehensive	Accumulated	st	Total ockholders'	
	Shares		Amount		capital	income (loss)		deficit		equity	
Balance at December 31, 2017	36,452,893	\$	36,453	\$	380,156,510	\$	(94,623)	\$ (341,456,200)	\$	38,642,140	
Share-based compensation	_		_		2,530,425		_	_		2,530,425	
Issuance of shares under an employee stock purchase plan (ESPP)	4,861		5		27,897		_	_		27,902	
Issuance of common stock, net of offering costs	4,545,928		4,546		38,494,817		_	_		38,499,363	
Issuance of common stock for option exercises	125,391		125		407,071		_	_		407,196	
Net loss	_		_		_		_	(4,543,051)		(4,543,051)	
Foreign currency translation adjustments							5,832			5,832	
Balance at March 31, 2018	41,129,073		41,129		421,616,720		(88,791)	(345,999,251)		75,569,807	
Share-based compensation	_		_		823,212		_	_		823,212	
Issuance of common stock, net of offering costs	_		_		(18,462)		_	_		(18,462)	
Exercise of warrants	750,000		750		2,361,750		_	_		2,362,500	
Net loss	_		_		_		_	(3,144,139)		(3,144,139)	
Foreign currency translation adjustments							(4,015)			(4,015)	
Balance at June 30, 2018	41,879,073	\$	41,879	\$	424,783,220	\$	(92,806)	\$ (349,143,390)	\$	75,588,903	

MEDICINOVA, INC. CONSOLIDATED STATEMENTS OF CASH FLOWS (Unaudited)

	Six months ended			
	 June 30,			
	 2019		2018	
Operating activities:				
Net loss	\$ (8,579,066)	\$	(7,687,190)	
Adjustments to reconcile net loss to net cash used in operating				
activities:				
Non-cash stock-based compensation	4,542,014		3,353,637	
Depreciation and amortization	12,337		13,479	
Change in joint venture investment	_		(19,867)	
Changes in assets and liabilities:				
Prepaid expenses and other assets	(508,053)		(104,307)	
Accounts payable, accrued liabilities and other liabilities	(148,832)		(1,290,513)	
Net cash used in operating activities	(4,681,600)		(5,734,761)	
Investing activities:	_			
Proceeds from dissolution of joint venture	_		636,524	
Acquisition of property and equipment	 (4,013)		(10,207)	
Net cash (used in) provided by investing activities	 (4,013)		626,317	
Financing activities:				
Proceeds from issuance of common stock, exercise of common				
stock options and warrants, net of issuance costs	4,092,573		41,250,597	
Proceeds from issuance of equity awards under ESPP	16,903		27,902	
Net cash provided by financing activities	4,109,476		41,278,499	
Effect of exchange rate changes on cash and cash equivalents	561		980	
Net change in cash and cash equivalents	(575,576)		36,171,035	
Cash and cash equivalents, beginning of period	62,313,418		27,991,743	
Cash and cash equivalents, end of period	\$ 61,737,842	\$	64,162,778	

MEDICINOVA, INC.

Notes to Consolidated Financial Statements (Unaudited)

1. Interim Financial Information

Organization and Business

MediciNova, Inc. (the "Company" or "MediciNova") was incorporated in the state of Delaware in September 2000 and is a public company. The Company's common stock is listed in both the United States and Japan and trades on the NASDAQ Global Market and the JASDAQ Market of the Tokyo Stock Exchange. MediciNova is a biopharmaceutical company focused on acquiring and developing novel, small molecule therapeutics for the treatment of serious diseases with unmet medical needs with a commercial focus on the U.S. market. The Company's current strategy is to focus its development activities on MN-166 (ibudilast) for neurological disorders such as progressive multiple sclerosis (MS), amyotrophic lateral sclerosis (ALS), chemotherapy-induced peripheral neuropathy, degenerative cervical myelopathy, glioblastoma, and substance dependence and addiction (e.g., methamphetamine dependence, opioid dependence and alcohol dependence), and MN-001 (tipelukast) for fibrotic diseases such as nonalcoholic steatohepatitis (NASH) and idiopathic pulmonary fibrosis (IPF). The Company's pipeline also includes MN-221 (bedoradrine) for the treatment of acute exacerbation of asthma and MN-029 (denibulin) for solid tumor cancers.

Basis of Presentation

The accompanying unaudited consolidated financial statements have been prepared in accordance with accounting principles generally accepted in the United States (GAAP) for interim financial information and with the instructions of the Securities and Exchange Commission (SEC) on Form 10-Q and Rule 10-01 of Regulation S-X. Accordingly, they do not include all the information and disclosures required by GAAP for complete financial statements. In the opinion of management, the consolidated financial statements include all adjustments necessary, which are of a normal and recurring nature, for the fair presentation of the Company's financial position and of the results of operations and cash flows for the periods presented. The accompanying unaudited consolidated financial statements include the accounts of the Company and its wholly owned subsidiaries.

These financial statements should be read in conjunction with the audited consolidated financial statements and notes thereto for the year ended December 31, 2018 included in the Company's Annual Report on Form 10-K filed with the SEC. The results of operations for the interim period shown in this report are not necessarily indicative of the results that may be expected for any other interim period or for the full year. The balance sheet at December 31, 2018 has been derived from the audited financial statements at that date, but does not include all the information and footnotes required by GAAP for complete financial statements.

Research, Development and Patents

Research and development costs are expensed in the period incurred. Research and development costs primarily consist of salaries and related expenses for personnel, facilities and depreciation, research and development supplies, licenses and outside services. Such research and development costs totaled \$1.4 million and \$1.3 million for the three months ended June 30, 2019 and 2018, respectively. Research and development costs totaled \$2.9 million for each of the six months ended June 30, 2019 and 2018, respectively.

Costs related to filing and pursuing patent applications are expensed as incurred, as recoverability of such expenditures is uncertain. The Company includes all external costs related to the filing of patents on developments in Research, Development and Patents expenses. Such patent-related expenses totaled \$0.1 million for each of the three months ended June 30, 2019 and 2018, respectively and \$0.2 million and \$0.1 million for the six months ended June 30, 2019 and 2018, respectively.

Use of Estimates

The preparation of the consolidated financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the amounts reported in the consolidated financial statements and the accompanying notes. Actual results could differ from those estimates.

Recent Accounting Pronouncements

In February 2016, the FASB issued ASU 2016-02, Leases, which introduces the recognition of lease assets and lease liabilities by lessees for those leases classified as operating leases under previous guidance. The new standard establishes a right-of-use (ROU) model that requires a lessee to record a ROU asset and a lease liability on the balance sheet for all leases with terms longer than 12

months. The new standard is effective for fiscal years beginning after December 15, 2018 and interim periods within those fiscal years with early adoption permitted. The Company adopted ASU 2016-02 in the first quarter of 2019 utilizing the modified retrospective transition method through a cumulative-effect adjustment at the beginning of the first quarter of 2019. The Company has elected the package of practical expedients, which allows the Company not to reassess (1) whether any expired or existing contracts as of the adoption date are or contain a lease, (2) lease classification for any expired or existing leases as of the adoption date. The Company did not elect to apply the hindsight practical expedient when determining lease term and assessing impairment of right-of-use assets. The Company elected to not recognize right-of-use assets and lease liabilities for leases with a term of 12 months or less and to not separate non-lease components from lease. The adoption of ASU 2016-02 on January 1, 2019 resulted in the recognition of right-of-use assets of approximately \$0.4 million, lease liabilities for operating leases of approximately \$0.4 million and a zero cumulative-effect adjustment to accumulated deficit, with no material impact to its consolidated statements of operations. See Note 4 for further information regarding the impact of the adoption of ASU 2016-02 on the Company's financial statements.

In August 2018, the FASB ASU No. 2018-13, *Fair Value Measurement (Topic 820)*, which eliminates, adds and modifies certain disclosure requirements for fair value measurements. The modified standard eliminates the requirement to disclose changes in unrealized gains and losses included in earnings for recurring Level 3 fair value measurements and requires that changes in unrealized gains and losses be included in other comprehensive income for recurring Level 3 fair value measurements of instruments. The standard also requires the disclosure of the range and weighted average used to develop significant unobservable inputs and how weighted average is calculated for recurring and nonrecurring Level 3 fair value measurements. The amendment is effective for fiscal years beginning after December 15, 2019 and interim periods within that fiscal year with early adoption permitted. The Company does not expect the standard to have a material impact on its consolidated financial statements.

2. Revenue Recognition

Revenue Recognition Policy

Revenues consist mainly of research and development services performed under a contract with a customer. The Company evaluates the separate performance obligation(s) under each contract, allocates the transaction price to each performance obligation considering the estimated stand-alone selling prices of the services and recognizes revenue upon the satisfaction of such obligations over time or at a point in time dependent on the satisfaction of one of the following criteria: (1) the customer simultaneously receives and consumes the economic benefits provided by the vendor's performance (2) the vendor creates or enhances an asset controlled by the customer (3) the vendor's performance does not create an asset for which the vendor has an alternative use, and the vendor has an enforceable right to payment for performance completed to date.

Kissei Pharmaceutical Co., Ltd

In October 2011, the Company entered into a collaboration agreement with Kissei Pharmaceutical Co., Ltd., ("Kissei"), to perform research and development services relating to MN-221 (bedoradrine) in exchange for a non-refundable upfront payment of \$2.5 million. Under the terms of the agreement, the Company is responsible for all costs to be incurred in the performance of these services. The Company assessed the services in accordance with the authoritative guidance and concluded that the two studies to be performed under the agreement represented two separate performance obligations. The transaction price was allocated among the two studies that were deemed separate performance obligations based on the expected costs to be incurred for each obligation. Revenue is recognized proportional to the total costs expected for each performance obligation as incurred over the service period. The first study was completed in 2013 and the timing of the second study is undetermined as of June 30, 2019. The amount received from Kissei and allocated, net of the amount recorded as revenue, is included on the balance sheet as long-term deferred revenue and will be recognized as revenue as the remaining performance obligation is satisfied. No revenue was recognized for the three and six months ended June 30, 2019 and 2018 in connection with the collaboration agreement with Kissei.

3. Fair Value Measurements

Fair value is an exit price, representing the amount that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants. As such, fair value is a market-based measurement that should be determined based on assumptions that market participants would use in pricing an asset or liability. As a basis for considering such assumptions, a three-tier fair value hierarchy has been established, which prioritizes the inputs used in measuring fair value as follows:

- Level 1: Observable inputs such as quoted prices in active markets;
- Level 2: Inputs are quoted prices for similar items in active markets or quoted prices for identical or similar items in markets that are not active near the measurement date; and
- Level 3: Unobservable inputs due to little or no market data, which require the reporting entity to develop its own assumptions.

Cash and cash equivalents, including money market accounts of \$685,259 and \$677,594 measured at fair value as of June 30, 2019 and December 31, 2018, respectively, are classified within Level 1 of the fair value hierarchy.

4. Leases

The Company has operating leases primarily for real estate in the United States and Japan. The United States lease is for the Company's headquarters in San Diego and is for a term of four years and one month with a term date of December 31, 2021. The Company's lease in Tokyo, Japan was renewed in May 2019 and has a term of two years with an auto-renewal, two-year extension. The real estate operating leases are included in "Other non-current assets" on the Company's balance sheet and represents the Company's right to use the underlying assets for the lease term. The Company's obligation to make lease payments are included in "Accrued expenses and other liabilities" and "Other non-current liabilities" on the Company's balance sheet. Operating lease right-of-use assets and liabilities commencing after January 1, 2019 are recognized at commencement date based on the present value of lease payments over the lease term. As of June 30, 2019, total right-of-use assets and operating lease liabilities were approximately \$0.5 million each. Operating lease expense is recognized on a straight-line basis over the lease term and is included in general and administrative expenses. The Company's finance lease was deemed immaterial to the consolidated financial statements.

Because the rate implicit in each lease is not readily determinable, the Company uses its incremental borrowing rate to determine the present value of the lease payments.

Information related to the Company's right-of-use assets and related lease liabilities are as follows:

	 Three months ended June 30, 2019		nonths ended ne 30, 2019
Cash paid for operating lease liabilities	\$ 56,681	\$	109,136
Operating lease costs	54,124		108,022
Right-of-use assets obtained in exchange for new operating lease obligations	153,125		502,729
Maturities of operating lease liabilities as of June 30, 2019 were as follows:			
2019	\$		110,718
2020			226,477
2021			183,325
Thereafter			_
			520,520
Less imputed interest			(51,760)
Total lease liabilities	\$		468,760
Current operating lease liabilities	\$		189,965
Non-current operating lease liabilities			278,795
Total operating lease liabilities	\$		468,760
Weighted-average remaining lease term			2.32
Discount rate			8.8%

As of December 31, 2018, the total estimated future annual minimum lease payments under the Company's non-cancelable building and copier leases for the years ending after December 31, 2018 are as follows:

Years ending December 31:	
2019	\$ 182,847
2020	144,234
2021	149,951
2022	1,532
2023	 1,404
Total minimum payments	\$ 479,968

5. Stock-based Compensation

Stock Incentive Plans

In June 2013, the Company adopted the 2013 Equity Incentive Plan (2013 Plan), under which the Company may grant stock options, stock appreciation rights, restricted stock, restricted stock units and other awards to individuals who are then employees, officers, non-employee directors or consultants of the Company or its subsidiaries. The 2013 Plan is the successor to the Company's Amended and Restated 2004 Stock Incentive Plan (2004 Plan). A total of 7,200,000 shares of common stock are reserved for issuance under the 2013 Plan. In addition, "returning shares" that may become available from time to time are added back to the plan. "Returning shares" are shares that are subject to outstanding awards granted under the 2004 Plan that expire or terminate prior to exercise or settlement, are forfeited because of the failure to vest, are repurchased, or are withheld to satisfy tax withholding or purchase price obligations in connection with such awards. Although the Company no longer grants equity awards under the 2004 Plan, all outstanding stock awards granted under the 2004 Plan will continue to be subject to the terms and conditions as set forth in the agreements evidencing such stock awards and the terms of the 2004 Plan. As of June 30, 2019, 2,262,592 shares remain available for future grants under the 2013 Plan.

The Company occasionally issues employee performance-based stock options, the vesting of which is based on a determination made by the board of directors as to the achievement of certain corporate objectives at the end of the performance period. The grant date of such awards is the date on which the board of directors makes its determination. For periods preceding the grant date, the expense related to these awards is measured based on their fair value at each reporting date.

Stock Options

Options granted under the 2013 Plan and the 2004 Plan have terms of ten years from the date of grant and generally vest over a three or four year period. The exercise price of all options granted through June 30, 2019 and in 2018, was equal to the market value of the Company's common stock on the date of grant.

A summary of stock option activity and related information as of June 30, 2019 is as follows:

	Number of Option Shares	Weighted Average Exercise Price
Outstanding at December 31, 2018	6,609,647	\$ 4.61
Granted	1,337,000	9.67
Exercised	(1,015,454)	4.04
Cancelled	(105,000)	9.67
Outstanding at June 30, 2019	6,826,193	\$ 5.61
Exercisable at June 30, 2019	5,594,193	\$ 4.72

During the six months ended June 30, 2019 and 2018, 1,015,454 and 125,391 options were exercised, from which the Company received gross proceeds of \$4.1 million and \$0.4 million, respectively.

Employee Stock Purchase Plan

Under the Company's 2007 Employee Stock Purchase Plan (ESPP), 300,000 shares of common stock were originally reserved for issuance. In addition, the shares reserved automatically increase each year by a number equal to the lesser of: (i) 15,000 shares; (ii) 1% of the outstanding shares of common stock on the last day of the immediately preceding fiscal year; or (iii) such lesser amount as determined by the Board. The ESPP permits full-time employees to purchase common stock through payroll deductions (which cannot exceed 15% of each employee's compensation) at the lower of 85% of fair market value at the beginning of the offering period or the end of each six-month offering period. The ESPP is considered a compensatory plan and the Company records compensation expense included in the Company's statement of operations.

For the six months ended June 30, 2019, an aggregate of 2,401 shares were issued under the ESPP. As of June 30, 2019, there were 204,477 shares available for future issuance under the ESPP.

Compensation Expense

Stock-based compensation expense for stock option awards and ESPP shares are reflected in total operating expenses for each respective year.

The following table summarizes stock-based compensation expenses for the three and six months ended June 30, 2019 and 2018, respectively:

	i nree moi		Six months ended						
	 June 30,				June 30,				
	2019		2018		2019		2018		
Research, development and patents	\$ 540,591	\$	230,511	\$	1,333,648	\$	968,025		
General and administrative	1,301,923		592,701		3,208,366		2,385,612		
Total stock-based compensation expense	\$ 1,842,514	\$	823,212	\$	4,542,014	\$	3,353,637		

The Company uses the Black-Scholes valuation model for determining the estimated fair value for stock-based awards granted to employees and stock purchased under the ESPP. The following table provides the assumptions used in the Black-Scholes valuation model used to estimate the fair value of options granted and stock purchased under the ESPP during the six months ended June 30, 2019 and 2018, and to estimate the fair value of performance-based stock options as of June 30, 2019 and 2018.

	Six months ended June 30, 2019	Six months ended June 30, 2018
Stock Option assumptions:		
Risk-free interest rate	1.76-2.19%	2.73-2.77%
Expected volatility of common stock	61.9-62.58%	59.76-66.70%
Dividend yield	0.0%	0.0%
Expected term (in years)	5.0-5.3	5.0-5.3
ESPP assumptions:		
Risk-free interest rate	2.46%	1.92%
Expected volatility of common stock	72.50%	76.8%
Dividend yield	0.0%	0.0%
Expected term (in years)	0.5	0.5

As of June 30, 2019, there was \$3.6 million of unamortized compensation cost related to unvested stock option awards which is expected to be recognized over a remaining weighted-average vesting period of 0.56 years, on a straight-line basis.

6. Stockholders' Equity

At-The-Market Issuance Sales Agreements

On May 22, 2015, the Company entered into an at-the-market issuance sales agreement (the "ATM Agreement") with MLV & Co. LLC (MLV), pursuant to which the Company may sell common stock through MLV from time to time up to an aggregate offering price of \$30.0 million. Sales of the Company's common stock through MLV, if any, will be made by any method that is deemed to be an "at-the-market" equity offering as defined in Rule 415 promulgated under the Securities Act of 1933, as amended, including sales made directly on NASDAQ, on any other existing trading market for the common stock or to or through a market maker. MLV may also sell the common stock in privately negotiated transactions, subject to the Company's prior approval. The Company agreed to pay MLV an aggregate commission rate of up to 4.0% of the gross proceeds of any common stock sold under this agreement. Proceeds from sales of common stock will depend on the number of shares of common stock sold to MLV and the per share purchase price of each transaction.

The Company is not obligated to make any sales of common stock under the sales agreement and may terminate the sales agreement at any time upon written notice. On September 16, 2016, the Company amended the original sales agreement with MLV to also include FBR Capital Markets & Co. as a sales agent.

No shares of common stock were sold under this agreement in the six months ended June 30, 2019 and 2018.

Common Stock Warrants

During the six months ended June 30, 2018, warrants to purchase 750,000 shares of the Company's common stock were exercised for gross proceeds of \$2.4 million. Upon exercise of the 750,000 warrants, there were no more warrants outstanding to purchase the Company's common stock.

7. Net Loss Per Share

The Company computes basic net loss per share using the weighted average number of common shares outstanding during the period. Diluted net income per share is based upon the weighted average number of common shares and potentially dilutive securities (common share equivalents) outstanding during the period. Common share equivalents outstanding, determined using the treasury stock method, are comprised of shares that may be issued under the Company's stock option agreements, and warrants. Common share equivalents are excluded from the diluted net loss per share calculation if their effect is anti-dilutive.

Potentially dilutive outstanding securities excluded from diluted net loss per common share due to their anti-dilutive effect totaled 6,826,193 shares and 6,609,647 shares as of June 30, 2019 and 2018, respectively.

8. Subsequent Events

At-The-Market Issuance

On July 2, 2019, the Company sold 149,787 shares of common stock under the ATM Agreement at a weighted average price of \$9.63 per share for net proceeds of \$1.4 million.

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

The following discussion and analysis of our financial condition and results of operations should be read in conjunction with our unaudited consolidated financial statements and notes thereto included in this Quarterly Report on Form 10-Q and the audited financial statements and notes thereto as of and for the year ended December 31, 2018 included in our Annual Report on Form 10-K filed with the Securities and Exchange Commission, or SEC, on February 13, 2019. Past operating results are not necessarily indicative of results that may occur in future periods.

This Quarterly Report on Form 10-Q contains forward-looking statements that are subject to risks and uncertainties, many of which are beyond our control. Our actual results may differ from those anticipated in these forward-looking statements as a result of various factors, including those set forth in Part II of this Quarterly Report on Form 10-Q under the caption "Item 1A. Risk Factors" and under the caption "Item 1A. Risk Factors" in our Annual Report on Form 10-K. The differences may be material. Forward-looking statements discuss matters that are not historical facts. Forward-looking statements include, but are not limited to, statements regarding our plans, strategies, objectives, product development programs, clinical trials, industry, financial condition, liquidity and capital resources, future performance and other statements that are not historical facts. Such forward-looking statements include statements preceded by, followed by or that otherwise include the words "may," "might," "will," "intend," "should," "could," "can," "would," "expect," "believe," "estimate," "anticipate," "predict," "potential," "plan" or similar words. For such statements, we claim the protection of the safe harbor for forward-looking statements contained in the Private Securities Litigation Reform Act of 1995. You should not rely unduly on these forward-looking statements, which speak only as of the date hereof. We undertake no obligation to update publicly or revise any forward-looking statements, whether as a result of new information, future events or otherwise, unless required by law.

Overview

We are a biopharmaceutical company focused on developing novel, small molecule therapeutics for the treatment of serious diseases with unmet medical needs and a commercial focus on the United States market. Our current strategy is to focus our development activities on MN-166 (ibudilast) for neurological disorders such as progressive multiple sclerosis (MS), amyotrophic lateral sclerosis (ALS), chemotherapy-induced peripheral neuropathy, degenerative cervical myelopathy, glioblastoma, and substance dependence and addiction (e.g., methamphetamine dependence, opioid dependence, and alcohol dependence), and MN-001 (tipelukast) for fibrotic diseases such as nonalcoholic steatohepatitis (NASH) and idiopathic pulmonary fibrosis (IPF). Our pipeline also includes MN-221 (bedoradrine) for the treatment of acute exacerbation of asthma and MN-029 (denibulin) for solid tumor cancers. We were incorporated in Delaware in September 2000.

We have incurred significant net losses since our inception. As of June 30, 2019, we had an accumulated deficit of \$364.7 million and expect to incur substantial net losses for the next several years as we continue to develop certain of our existing product development candidates, and over the long-term if we expand our research and development programs and acquire or in-license products, technologies or businesses that are complementary to our own.

Our goal is to build a sustainable biopharmaceutical business through the successful development of differentiated products for the treatment of serious diseases with unmet medical needs in high-value therapeutic areas. Key elements of our strategy are as follows:

- Pursue the development of MN-166 (ibudilast) for multiple potential indications with the support of non-dilutive financings.
 - We intend to advance our diverse MN-166 (ibudilast) program through a combination of investigator-sponsored clinical trials, trials funded through government grants or other grants, and trials funded by us. In addition to providing drug supply and regulatory support, we have funded portions of some of the consortium-sponsored trials. For example, we contributed financially to the Secondary and Primary Progressive Ibudilast NeuroNEXT Trial in Multiple Sclerosis (SPRINT-MS) Phase 2b clinical trial of MN-166 (ibudilast) for the treatment of progressive MS, which was primarily funded by the NIH. In addition, we contributed financially to the clinical trial of MN-166 (ibudilast) for the treatment of ALS as well as the ongoing ALS / Biomarker study. We intend to pursue additional strategic alliances to help support further clinical development of MN-166 (ibudilast).
- Pursue the development of MN-001 (tipelukast) for fibrotic and other diseases.
 - We intend to advance development of MN-001 (tipelukast) through a variety of means, which may include investigator-sponsored trials with or without grant funding as well as trials funded by us.

 Consider strategic partnerships with one or more leading pharmaceutical companies to complete late-stage product development and successfully commercialize our products.

We develop and maintain relationships with pharmaceutical companies that are therapeutic category leaders. Upon completion of proof-of-concept Phase 2 clinical trials, we intend to discuss strategic alliances with leading pharmaceutical companies who seek late-stage product candidates, such as MN-166 (ibudilast), MN-001 (tipelukast), MN-221 (bedoradrine) and MN-029, which could support further clinical development and product commercialization.

Revenues and Cost of Revenues

In October 2011, we entered into a collaboration agreement with Kissei Pharmaceutical Co., Ltd., or Kissei, to perform research and development services relating to MN-221 (bedoradrine) in exchange for a non-refundable upfront payment of \$2.5 million. Under the terms of the agreement, we are responsible for all costs to be incurred in the performance of these services. The Company assessed the services in accordance with the authoritative guidance and concluded that the two studies to be performed under the agreement represented two separate performance obligations. The transaction price was allocated among the two studies that were deemed separate performance obligations based on the expected costs to be incurred for each obligation. Revenue is recognized proportional to the total costs expected for each performance obligation as incurred over the service period. The first study was completed in 2013 and the second study has not begun as of June 30, 2019. We expect that the study will be completed after 2019. The amount received from Kissei and allocated, net of the amount recorded as revenue, is included on the balance sheet as long-term deferred revenue and will be recognized as revenue as the remaining performance obligation is satisfied. No revenue was recognized in the three and six months ended June 30, 2019 and 2018, in connection with the collaboration agreement with Kissei.

Research, Development and Patents Expenses

Our research, development and patents expenses consist primarily of license fees related to our product candidates, salaries and related employee benefits, costs associated with the preclinical and clinical development of our product development programs, costs associated with non-clinical activities, such as regulatory expenses, and pre-commercialization manufacturing development activities. We use external service providers to manufacture our compounds to be used in clinical trials and for the majority of the services performed in connection with the preclinical and clinical development of our product candidates. Research, development and patents expenses include fees paid to consultants, contract research organizations, contract manufacturers and other external service providers, including professional fees and costs associated with legal services, patents and patent applications for our intellectual property. Internal research and development expenses include costs of compensation and other expenses for research and development personnel, supplies, facility costs and depreciation. Research, development and patents costs are expensed as incurred and we expect to increase such costs throughout 2019 as our development programs progress.

The following table summarizes our research, development and patents expenses for the periods indicated for each of our product development programs. To the extent that costs, including personnel costs, are not tracked to a specific product development program, such costs are included in the "Other R&D expense" category (in thousands):

		Three months ended June 30,		Six months ended June 30,				
		2019		2018		2019		2018
External development expense:								
MN-221	\$	5	\$	16	\$	14	\$	24
MN-166		499		715		896		1,065
MN-001		37		66		63		216
MN-029		1		1		1		1
Total external development expense		542		798		974		1,306
R&D personnel expense		791		461		1,866		1,469
R&D facility and depreciation expense		11		12		23		24
Patent expenses		74		65		157		139
Other R&D expense		47		43		79		103
Total research, development and patent expense	\$	1,465	\$	1,379	\$	3,099	\$	3,041

General and Administrative

Our general and administrative costs primarily consist of salaries, stock-based compensation, benefits and consulting and professional fees related to our administrative, finance, human resources, business development, legal, information systems support functions, facilities and insurance costs. General and administrative costs are expensed as incurred.

Our general and administrative expenses may increase in future periods if we are required to expand our infrastructure based on the success of our product development programs and in raising capital to support our product development programs or otherwise in connection with increased business development activities related to partnering, out-licensing or product disposition.

Critical Accounting Policies and Estimates

Our discussion and analysis of our financial condition and results of operations is based upon financial statements that have been prepared in accordance with accounting principles generally accepted in the United States (GAAP). The preparation of these financial statements requires management to make estimates and judgments that affect the reported amounts of assets, liabilities and expenses, and related disclosures. On an on-going basis, we evaluate these estimates, including those related to research and development and patent expense, stock-based compensation, goodwill and purchased intangibles, lease related activities, investments, and fixed assets. Estimates are based on historical experience, information received from third parties and on various other assumptions that are believed to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. Actual results may differ from these estimates under different assumptions or conditions. The items in our financial statements requiring significant estimates and judgments are as follows:

Research, Development and Patents Expenses

Research, development and patents costs are expensed as incurred based on contractual factors such as estimates of work performed, milestones achieved, patient enrollment and experience with similar contracts. As actual costs become known, accruals are adjusted. To date, our accrued research, development and patents expenses have not differed significantly from the actual expenses incurred.

Stock-Based Compensation

We grant options to purchase our common stock to our employees and directors under our 2013 Stock Incentive Plan. Additionally, we have outstanding stock options that were granted under our Amended and Restated 2004 Stock Incentive Plan. Under our 2007 Employee Stock Purchase Plan, full-time employees are permitted to purchase common stock through payroll deductions at the lower of 85% of fair market value at the beginning of the offering period or the end of each six-month offering period. The benefits provided under these plans require stock-based compensation for an award of equity instruments, including stock options and employee stock purchase rights issued to employees, to be recognized as a cost in the consolidated financial statements. The cost of these awards is measured according to the grant date fair value of the stock award and is recognized on a straight-line basis over the period during which an employee is required to provide service in exchange for the award, which is usually the vesting period. We occasionally issue employee performance-based stock options, the vesting of which is based on a determination made by our board of directors as to the achievement of certain corporate objectives. The grant date of such awards is the date on which our board of directors makes its determination. For periods preceding the grant date, the expenses related to these awards is measured based on their fair value at each reporting date. In the absence of an observable market price for the stock award, the grant date fair value of the award would be based upon a valuation methodology that takes into consideration various factors, including the exercise price of the award, the expected term of the award, the current price of the underlying shares, the expected volatility of the underlying share price, the expected dividends on the underlying shares and the risk-free interest rate.

Valuation of our stock option grants requires us to estimate certain variables, such as estimated volatility and expected life. If any of our estimations change, such changes could have a significant impact on the amount of stock-based compensation expense that we recognize.

Goodwill and Purchased Intangibles

Goodwill is recorded when the consideration paid for an acquisition exceeds the fair value of the identified net tangible and intangible assets of an acquired business. The allocation of purchase price for acquisitions requires extensive use of accounting estimates and judgments to allocate the purchase price to the identifiable tangible and intangible assets acquired and liabilities assumed based on their respective fair values. Additionally, we must determine whether an acquired entity is considered a business or a set of net assets as a portion of the purchase price can only be allocated to goodwill in a business combination. Goodwill and intangible assets deemed to have indefinite lives, such as in-process research and development ("IPR&D") are not amortized but are

subject to annual impairment tests. The amounts and useful lives assigned to intangible assets that have finite useful lives require the use of estimates and the exercise of judgment. These judgments can significantly affect our net operating results. As of June 30, 2019, goodwill and IPR&D, were \$9.6 million and \$4.8 million, respectively.

We periodically re-evaluate the original assumptions and rationale utilized in the establishment of the carrying value and estimated lives of our indefinite-lived assets. The criteria used for these evaluations include management's estimate of the asset's continuing ability to generate income from operations and positive cash flows in future periods as well as the strategic significance of any intangible assets in our business objectives. If assets are considered impaired, the impairment recognized is the amount by which the carrying value of the assets exceeds the fair value of the assets.

Results of Operations

Comparison of the three months ended June 30, 2019 and 2018

Research, Development and Patents Expenses

Research, development and patents expenses were \$1.5 million and \$1.4 million for the three months ended June 30, 2019 and 2018, respectively. The increase of \$0.1 million was due to higher stock compensation expense for performance-based stock options, offset by lower clinical trial expenses in the three months ended June 30, 2019, compared to the same period in 2018.

General and Administrative

General and administrative expenses were \$2.7 million and \$2.0 million for the three months ended June 30, 2019 and 2018, respectively. The increase of \$0.7 million was primarily due to higher stock compensation expense for performance-based stock options for the three months ended June 30, 2019 compared to the same period in 2018.

Comparison of the six months ended June 30, 2019 and 2018

Research, Development and Patents Expenses

Research, development and patents expenses were \$ 3.1 million and \$3.0 million for the six months ended June 30, 2019 and 2018, respectively. The increase of \$0.1 million was due to higher stock compensation expense for performance-based stock options, offset by lower clinical trial expenses in the six months ended June 30, 2019, compared to the same period in 2018.

General and Administrative

General and administrative expenses were \$6.1 million and \$5.0 million for the six months ended June 30, 2019 and 2018, respectively. The increase of \$1.1 million was primarily due to higher stock compensation expense for performance-based stock options for the six months ended June 30, 2019 compared to the same period in 2018.

Liquidity and Capital Resources

Net cash used in operating activities during the six months ended June 30, 2019 was \$4.7 million compared to \$5.7 million during the same period in 2018. Net cash used in operating activities primarily reflects the net loss and changes in operating assets and liabilities for those periods, which was partially offset by non-cash stock-based compensation expense.

Net cash used in investing activities was \$4,013 during the six months ended June 30, 2019. Net cash provided by investing activities was \$0.6 million during the six months ended June 30, 2018, primarily due to the Company's liquidation of its joint venture company, Zhejiang Sunmy Bio-Medical Co., Ltd.

Net cash provided by financing activities was \$4.1 million during the six months ended June 30, 2019 compared to \$41.3 million during the same period in 2018. Net cash provided by financing activities during the six months ended June 30, 2019 is primarily due to the exercise of 1,015,454 options to purchase common stock for cash proceeds of \$4.1 million. Net cash provided by financing activities during the six months ended June 30, 2018 is primarily due to the public offering of 4,545,928 shares of common stock for net proceeds of \$38.5 million and cash proceeds of \$2.4 million from the exercise of warrants to purchase 750,000 shares of common stock. Cash proceeds from financing activities are used for working capital and general corporate purposes.

On May 22, 2015, we entered into an at-the-market issuance sales agreement (the "ATM Agreement") with MLV & Co. LLC (MLV), pursuant to which we may sell common stock through MLV from time to time up to an aggregate offering price of \$30.0 million. Sales of our common stock through MLV, if any, will be made by any method that is deemed to be an "at-the-market" equity

offering as defined in Rule 415 promulgated under the Securities Act of 1933, as amended, including sales made directly on NASDAQ, on any other existing trading market for the common stock or to or through a market maker. MLV may also sell the common stock in privately negotiated transactions, subject to our prior approval. We agreed to pay MLV an aggregate commission rate of up to 4.0% of the gross proceeds of any common stock sold under this agreement. Proceeds from sales of common stock will depend on the number of shares of common stock sold to MLV and the per share purchase price of each transaction. We are not obligated to make any sales of common stock under the sales agreement and may terminate the sales agreement at any time upon written notice. On September 16, 2016, we amended the ATM agreement to also include FBR Capital Markets & Co. as a sales agent.

No shares of common stock were sold under this agreement in the six months ended June 30, 2019 and 2018.

As of June 30, 2019, we had available cash and cash equivalents of \$61.7 million and working capital of \$60.5 million. As of the date of this report, we believe we have working capital sufficient to fund operations at least through December 31, 2020. However, we cannot provide assurance that these capital resources will be sufficient to conduct all our research and development programs as planned.

Off-Balance Sheet Arrangements

At June 30, 2019, we did not have any relationship with unconsolidated entities or financial partnerships, such as entities often referred to as structured finance variable interest, or special purpose entities, which would have been established for the purpose of facilitating off-balance sheet arrangements. In addition, we did not engage in trading activities involving non-exchange traded contracts. As a result, we are not exposed to any financing, liquidity, market or credit risk that could arise if we had engaged in such relationships. We do not have relationships and transactions with persons and entities that derive benefits from their non-independent relationship with us or our related parties except as disclosed herein.

ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK.

Our primary exposure to market risks are due to changes in interest rates, which relates primarily to the increase or decrease in the amount of interest income we can earn on our investment portfolio. The primary objective of our investment activities is to preserve principal. Our risk associated with fluctuating interest rates is limited to our investments in interest rate sensitive financial instruments and we do not use interest rate derivative instruments to manage exposure to interest rate changes. We mitigate default risk by investing in investment grade securities. A hypothetical 100 basis point adverse move in interest rates along the entire interest rate yield curve would not materially affect the fair value of our interest-rate sensitive financial instruments due to their relatively short-term nature.

Cash and cash equivalents as of June 30, 2019 were \$61.7 million and were primarily invested in money market interest bearing accounts and money market funds. A hypothetical 10% adverse change in the average interest rate on our cash and cash equivalents would have had no material effect on net loss for the three and six months ended June 30, 2019.

ITEM 4. CONTROLS AND PROCEDURES.

We maintain disclosure controls and procedures that are designed to provide reasonable assurance that the information required to be disclosed in our filings under the Securities Exchange Act of 1934, as amended, or the Exchange Act, is (1) recorded, processed, summarized and reported within the time periods specified in SEC's rules and forms, and (2) accumulated and communicated to management, including our Chief Executive Officer and Chief Financial Officer, as appropriate, to allow for timely decisions regarding required disclosure.

Our management, including our Chief Executive Officer and Chief Financial Officer, does not expect that our procedures or our internal controls will prevent or detect all errors and all fraud. Any internal control system, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the control system are met. Because of the inherent limitations in all control systems, no evaluation of our controls can provide absolute assurance that all control issues and instances of fraud, if any, have been detected.

Evaluation of Disclosure Controls and Procedures

As required by Rule 13a-15(b) of the Exchange Act, we carried out an evaluation, under the supervision and with the participation of our management, including our Chief Executive Officer and our Chief Financial Officer, of the effectiveness of the design and operation of our disclosure controls and procedures as of the end of the quarter covered by this report. Based on the

foregoing, our Chief Executive Officer and our Chief Financial Officer concluded that our disclosure controls and procedures were effective at the reasonable assurance level.

Changes in Internal Control over Financial Reporting

There has been no change in our internal control over financial reporting during our most recent fiscal quarter that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

PART II. OTHER INFORMATION

ITEM 1. LEGAL PROCEEDINGS.

We are not involved in any material legal proceedings as of June 30, 2019. We may become involved in various disputes and legal proceedings which arise in the ordinary course of business or otherwise. While it is not possible to accurately predict or determine the outcome of these matters, an adverse result in any litigation matter may occur which could harm our business.

ITEM 1A. RISK FACTORS.

In addition to the other information set forth in this report, you should carefully consider the factors discussed in Part I, "Item 1A. Risk Factors" in our Annual Report on Form 10-K for the year ended December 31, 2018, which are incorporated herein by reference and which could materially affect our business, financial condition or future results. The risks described in our Annual Report on Form 10-K are not the only risks facing our Company. Additional risks and uncertainties not currently known to us or that we currently deem to be immaterial also may materially adversely affect our business, financial condition and/or operating results. There have been no material changes from the risk factors previously disclosed in our Annual Report on Form 10-K for the year ended December 31, 2018.

ITEM 2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS.

None

ITEM 3. DEFAULTS UPON SENIOR SECURITIES.

None

ITEM 4. MINE SAFETY DISCLOSURES.

Not applicable

ITEM 5. OTHER INFORMATION.

None

Exhibit Number

ITEM 6. EXHIBITS.

3.1	Restated Certificate of Incorporation of the Registrant, as amended (incorporated by reference to Exhibit 3.1 of the Registrant's Quarterly Report on Form 10-Q filed August 9, 2012).
3.2	Amended and Restated Bylaws of the Registrant (incorporated by reference to Exhibit 3.1 of the Registrant's Current Report on Form 8-K filed April 25, 2019).
31.1	Certification of the Principal Executive Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
31.2	Certification of the Principal Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
32.1	Certification of Principal Executive Officer pursuant to 18 U.S.C. Section 1350 (Section 906 of the Sarbanes-Oxley Act of 2002).
32.2	Certification of Principal Financial Officer pursuant to 18 U.S.C. Section 1350 (Section 906 of the Sarbanes-Oxley Act of 2002).
101	The following financial statements from the MediciNova, Inc. Quarterly Report on Form 10-Q for the quarter ended June 30, 2019 formatted in Extensible Business Reporting Language (XBRL): (i) Consolidated Balance Sheets; (ii) Consolidated Statements of Operations and Comprehensive Loss; (iii) Consolidated Statements of Stockholders' Equity; (iv) Consolidated Statements of Cash Flows; and (v) the notes to the consolidated financial statements.

Description

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.

MEDICINOVA, INC.

Date:	July 25, 2019		

By:

/s/ YUICHI IWAKI

Yuichi Iwaki, M.D., Ph.D.

President and Chief Executive Officer
(on behalf of the registrant and
as the registrant's Principal Executive Officer)

sy: /s/ Carla Reyes

Carla Reyes
Chief Financial Officer
(on behalf of the registrant and
as the registrant's Principal Financial Officer)

MEDICINOVA, INC.

Certification of the Principal Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 for the Period Ended June 30, 2019

I, Yuichi Iwaki, certify that:

- 1. I have reviewed this Quarterly Report on Form 10-Q for the period ended June 30, 2019 of MediciNova, 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)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the Registrant and have:
 - a) designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the Registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) evaluated the effectiveness of the Registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) disclosed in this report any change in the Registrant's internal control over financial reporting that occurred during the Registrant's most recent fiscal quarter (the Registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the Registrant's internal control over financial reporting; and
- 5. The Registrant's other certifying officer(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.

Date: July 25, 2019

By: /s/ Yuichi Iwaki

Yuichi Iwaki, M.D., Ph.D. President and Chief Executive Officer (Principal Executive Officer)

MEDICINOVA, INC.

Certification of the Principal Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 for the Period Ended June 30, 2019

I, Carla Reves, certify that:

- 1. I have reviewed this Quarterly Report on Form 10-Q for the period ended June 30, 2019 of MediciNova, 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)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the Registrant and have:
 - a) designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the Registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) evaluated the effectiveness of the Registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) disclosed in this report any change in the Registrant's internal control over financial reporting that occurred during the Registrant's most recent fiscal quarter (the Registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the Registrant's internal control over financial reporting; and
- 5. The Registrant's other certifying officer(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.

Date: July 25, 2019

By: /s/ Carla Reyes

Carla Reyes Chief Financial Officer (Principal Financial Officer)

CERTIFICATION OF PRINCIPAL EXECUTIVE OFFICER PURSUANT TO 18 U.S.C. SECTION 1350 (SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002)

In connection with the accompanying Quarterly Report on Form 10-Q of MediciNova, Inc. (the "Company") for the period ended June 30, 2019 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Yuichi Iwaki, as President and Chief Executive Officer of the Company, hereby certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that to my knowledge:

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

Yuichi Iwaki, M.D., Ph.D. President and Chief Executive Officer (Principal Executive Officer)			
By:	/s/ Yuichi Iwaki		
Date: July 2	5, 2019		

The foregoing certification is being furnished solely to accompany the Report pursuant to 18 U.S.C. Section 1350, and is not being filed for purposes of Section 18 of the Securities Exchange Act of 1934, as amended, and such certification is not to be incorporated by reference into any filing of the Company, whether made before or after the date hereof, regardless of any general incorporation language in such filing. A signed original of this written statement required by Section 906 has been provided to the Company and will be retained by the Company and furnished to the Securities and Exchange Commission or its staff upon request.

CERTIFICATION OF PRINCIPAL FINANCIAL OFFICER PURSUANT TO 18 U.S.C. SECTION 1350 (SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002)

In connection with the accompanying Quarterly Report on Form 10-Q of MediciNova, Inc. (the "Company") for the period ended June 30, 2019, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Carla Reyes, as Chief Financial Officer of the Company, hereby certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that to my knowledge:

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

Date: July 25, 2	:019
By:	/s/ Carla Reyes
	Carla Reyes Chief Financial Officer (Principal Financial Officer)

The foregoing certification is being furnished solely to accompany the Report pursuant to 18 U.S.C. Section 1350, and is not being filed for purposes of Section 18 of the Securities Exchange Act of 1934, as amended, and such certification is not to be incorporated by reference into any filing of the Company, whether made before or after the date hereof, regardless of any general incorporation language in such filing. A signed original of this written statement required by Section 906 has been provided to the Company and will be retained by the Company and furnished to the Securities and Exchange Commission or its staff upon request.