UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, DC 20549

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of report (Date of earliest event reported): September 13, 2010

MEDICINOVA, INC.

(Exact name of Registrant as Specified in Its Charter)

DELAWARE	**001-33185**	**33-0927979**
(State or Other Jurisdiction of Incorporation)	**(Commission File Number)**	**(IRS Employer Identification No.)**

4350 LA JOLLA VILLAGE DRIVE, SUITE 950, SAN DIEGO, CA	**92122**
(Address of Principal Executive Offices)	**(Zip Code)**

Registrant's telephone number, including area code: (858) 373-1500

Not Applicable
(Former Name or Former Address, if Changed Since Last Report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (*see* General Instruction A.2. below):

☐ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

☐ Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

☐ Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

☐ Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Item 7.01. Regulation FD Disclosure.

Representatives of MediciNova, Inc. (the "Registrant") will be attending the Rodman and Renshaw Annual Global Investment Conference commencing on September 12, 2010 and are scheduled to make a presentation at such conference on September 13, 2010 at 3:40 p.m. Eastern time. The information to be presented by the Registrant at the conference and investor meetings is attached hereto as Exhibit 99.1.

The information in this Current Report on Form 8-K being provided under this Item 7.01, including Exhibit 99.1 furnished herewith, is being furnished and shall not be deemed "filed" for any purpose of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liabilities of such Section. The information in this current report on Form 8-K shall not be deemed to be incorporated by reference into any filing under the Securities Act of 1933, as amended, or the Exchange Act, except as shall be expressly set forth by specific reference in such filing.

Item 9.01. Financial Statements and Exhibits.

(d) *Exhibits*.

99.1 Slide Presentation of the Registrant.

SIGNATURES

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

MEDICINOVA, INC.

Date: September 13, 2010

By: /s/ Shintaro Asako
Name: **Shintaro Asako**
Title: **Vice President and Chief Financial Officer**

Exhibit 99.1

MEDICINOVA

Accelerating the global development and commercialization of innovative pharmaceuticals

Forward-Looking Statements

Statements in this presentation that are not historical in nature constitute forward-looking statements within the meaning of the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. These forward-looking statements include statements regarding MediciNova's clinical trials supporting the safety and efficacy of its product candidates and the potential novelty of such product candidates as treatments for disease, plans and objectives for clinical trials and product development, strategies, future performance, expectations, assumptions, financial condition, liquidity and capital resources. These forward-looking statements may be preceded by, followed by or otherwise include the words "believes," "expects," "anticipates," "intends," "estimates," "projects," "can," "could," "may," "will," "would," or similar expressions. Actual results or events may differ materially from those expressed or implied in any forward-looking statements due to various factors, including the risks and uncertainties inherent in clinical trials and product development and commercialization, such as the uncertainty in results of clinical trials for product candidates, the uncertainty of whether the results of clinical trials will be predictive of results in later stages of product development, the risk of delays or failure to obtain or maintain regulatory approval, the risk of failure of the third parties upon whom MediciNova relies to conduct its clinical trials and manufacture its product candidates to perform as expected, the risk of increased cost and delays due to delays in the commencement, enrollment, completion or analysis of clinical trials or significant issues regarding the adequacy of clinical trial designs or the execution of clinical trials and the timing, cost and design of future clinical trials and research activities; the timing of expected filings with the FDA; MediciNova's failure to execute strategic plans or strategies successfully; MediciNova's collaborations with third parties; MediciNova's ability to realize the anticipated strategic and financial benefits from its acquisition of Avigen, Inc., to integrate the two ibudilast development programs and to pursue discussions with potential partners to secure a strategic collaboration to advance the clinical development of the combined development program; the availability of funds to complete product development plans and MediciNova's ability to raise sufficient capital when needed, or at all; intellectual property or contract rights; and the other risks and uncertainties described in MediciNova's filings with the Securities and Exchange Commission, including MediciNova's annual report on Form 10-K for the year ended December 31, 2009 and its subsequent periodic reports on Forms 10-Q, 10-K and 8-K. You are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date September 1, 2010. MediciNova disclaims any intent or obligation to revise or update these forward-looking statements.

MEDICINOVA

Corporate Overview: MediciNova, Inc.

MediciNova Overview:

- Founded in September 2000
- Headquartered in San Diego, CA
  - Additional office in Tokyo, Japan
- Dual-listing on Nasdaq GM: **MNOV** and Osaka Securities Exchange as **4875**
- $71.7 million Market Cap (NasdaqGM) as of 8/2/2010

Development Company Focused on Differentiated Product Candidates

- Unique access to differentiated, potentially high-value assets primarily from Japanese alliances (Kyorin, Kissei, Mitsubishi Tanabe Pharma, Meiji)

New Approaches to Treat Serious Medical Conditions:

- MN-221: Intravenous (IV) acute asthma and COPD candidate
  - Potential $1 billion+ combined market opportunity worldwide*
- MN-166: oral multiple sclerosis, neuropathic pain, drug addiction candidate

**Source: Internal MediciNova projections*

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MN-221 for Exacerbations of Acute Asthma and COPD

Definition:

- Long-lasting and severe episodes that are not responsive to initial bronchodilator or corticosteroid therapies

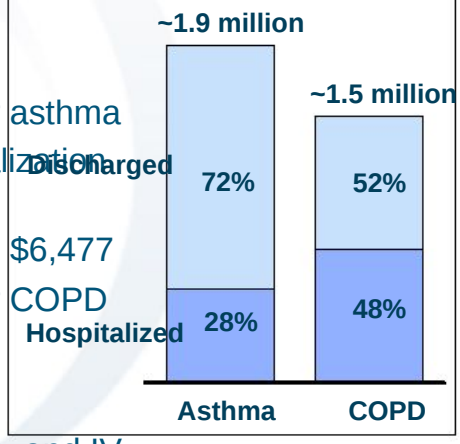
Market Opportunity*:

- ~500,000 annual hospitalizations in the US for asthma
  - Average length of stay for asthma hospitalization is 3.2 days
  - Average cost for asthma hospitalization is $6,477
- ~726,000 annual hospitalizations in the US for COPD
  - ~119,000 deaths due to COPD

Current Standard of Care (SOC):

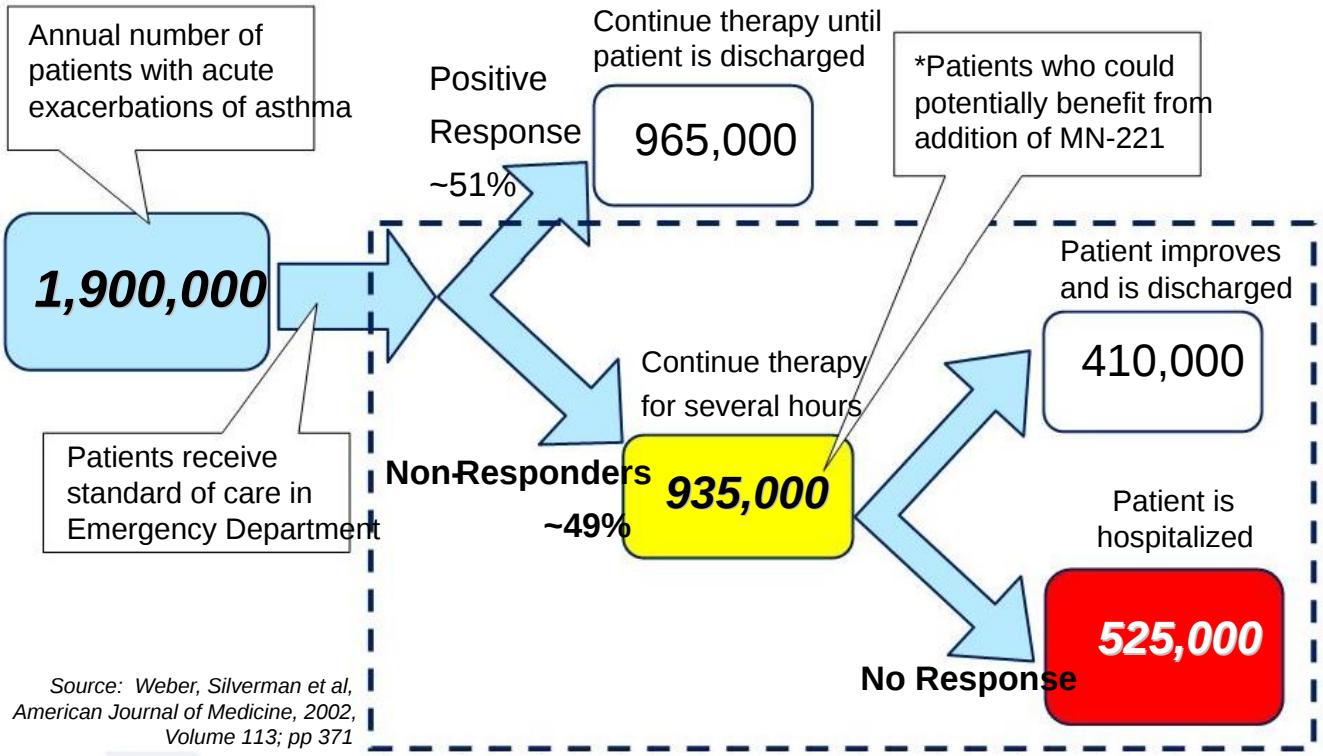
- Inhaled Beta agonists, inhaled anticholinergics, and IV or oral corticosteroids

Hospitalization Rates Amongst Asthma and COPD Patients*



Source: National Center for Health Statistics / CDC, WHO website, "Core Health indicators", 2006 National Hospital Discharge Survey, IMS Health's Disease and Condition Benchmarks – PharMetrics Integrated Database, 1/2007 – 12/2008

Acute Asthma Treatment Flow in Emergency Departments in the U.S.



Source: Weber, Silverman et al, American Journal of Medicine, 2002, Volume 113; pp 371

MN-221: A New Approach to Treating Exacerbations of Acute Asthma & COPD

MN-221: A novel, highly selective β_2- adrenergic receptor agonist

Three potential advantages over current therapy:

1. **Improved Efficacy**
   - **Route of Administration (IV v. Inhalation)**
2. **Improved Safety**
   - **Higher selectivity for β_2 receptor than β_1**
     - **42.4 fold β_2 selectivity (IC_{50}-β_1 / IC_{50}-β_2)**
   - **Partial agonist for β_1 receptor**
3. **Reduced Health Care Expenses**

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MN-221 Clinical Trials

	Completed				Ongoing
Study	**CL-004**	**CL-005**	**CL-006**	**CL-010**	**CL-007**
Indication	Mild-to-moderate Asthmatics	Moderate-to-Severe Asthmatics	Acute Exacerbations of Asthma	Moderate-to-Severe COPD patients	Acute Exacerbations of Asthma
FEV_1 (Entry Criteria)	$FEV_1 \geq 60\%$	$75\% \geq FEV_1 \geq 40\%$	$FEV_1 \leq 55\%$	$80\% \geq FEV_1 \geq 30\%$	$FEV_1 \leq 50\%$
Number of Patients	23	17	29	48	200
Number of Sites	4	4	8	6	~35
Doses Tested Compared to Placebo	5.25, 15, 52.5, 150, 240, 450, 900 µg over 15 min	1080 µg over 2-hr; 1,125 µg over 1-hr	240, 450 µg over 15 min; 1080 µg over 2-hr	300, 600, 1200 µg over 1-hr	1200 µg over 1-hr

Note: CL-004, CL-005, CL-010 located in clinical sites. CL-006, CL-007 located in emergency departments.

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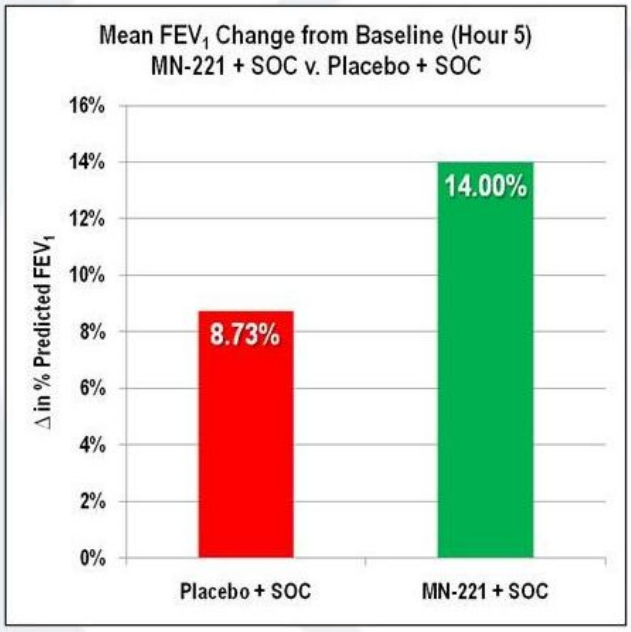
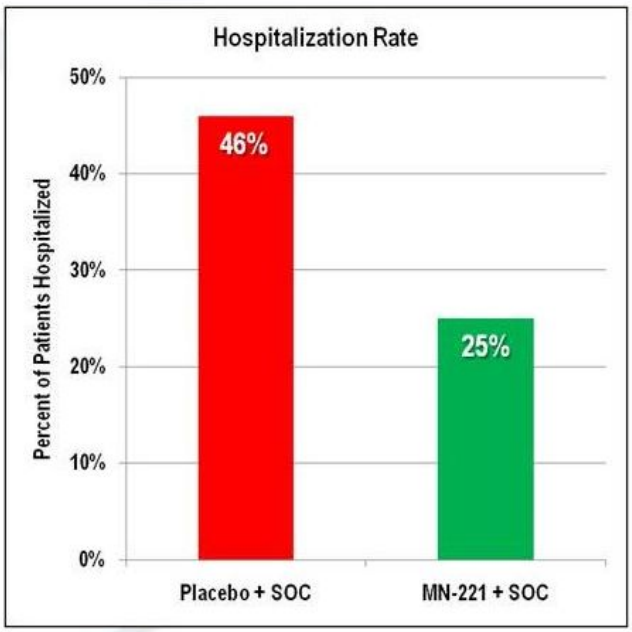
MN-221-CL-006
Mean Change in FEV_1 and Differences in Hospitalization Rate





Mean change in FEV_1 from baseline was 5.27% higher in the MN-221 dose groups versus the placebo group

MN-221 reduced the hospitalization rate by 45%

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MN-221-CL-007: Study Design

- Randomized, placebo-controlled, double-blind, multi-center Phase II clinical trial
- Up to 200 patients with severe, acute exacerbations of asthma ($FEV_1 \leq 50\%$ predicted) at multiple Emergency Department sites in the United States
- Dose Groups (up to 100 patients/group):
  - 1,200 µg MN-221 over 1 hour (600 µg in 15 minutes, 600 µg in 45 minutes)
  - Placebo
- Patients will receive Standard of Care (SOC) treatment in addition to adjunctive treatment with MN-221 or placebo
- Primary efficacy endpoint will be improvement in FEV_1 (% predicted) at 3 hours
  - *The study is designed to have 80% power to detect a treatment difference of 5 percentage points in FEV_1 (% predicted) when comparing MN-221 + SOC to Placebo + SOC at a two sided α level of 0.05.*
- Anticipated completion 1Q, 2011*

**Anticipated completion date based on current projections*
Note: Development plans / timelines for MN-221 clinical trials are subject to change

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MN-166 (Ibudilast) for the Treatment of MS, Neuropathic Pain, & Drug Addiction

MN-166

- Oral administration
- Safe and well-tolerated (approved in Japan/Korea with over 3.2 million patient exposures)
- Mechanism(s) of Action primarily non-selective PDE Inhibition, Attenuation of Glial Cell Activation and Inhibition of Microphage Migration Inhibitor Factor (MIF)

Clinical Safety & Preliminary Efficacy

- Completed Phase 2 Multiple Sclerosis Proof-of-Concept study (30 and 60 mg/d, predominately RRMS pts.)
- Completed Phase 1b/2a trial in Diabetic Neuropathic Pain
- Ongoing Phase 1b/2a clinical trial in Opioid Withdrawal; completion expected 2H, 2010
- Additional Supporting Data
  - 3 completed Phase 1 clinical trials
  - Dosing up to 100 mg single dose & 100 mg daily (50 mg BID)
  - ~400 subjects treated with MN-166 to date (safe & well-tolerated)
  - Open U.S. IND – Analgesia division – Neuropathic pain; Opioid Withdrawal

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MN-166 for Opioid Withdrawal: Phase Ib/IIa Ongoing Clinical Trial

Study Design:

- Study Objective: Assess MN-166 safety/tolerability/PK and preliminary efficacy for opiate withdrawal in heroin-dependent subjects
- Ongoing clinical trial run jointly by the New York State Psychiatric Institute and Columbia University in NYC (Investigator IND study; MediciNova is not the sponsor)
- Trial to enroll ~30 patients (10 completers/cohort)

Trial Design/Endpoints			
Week	**1**	**2**	**3**
Treatment	Morphine (30 mg QID) and Placebo BID	Morphine (30 mg QID) and Placebo BID or 20 mg BID of Ibudilast or 40 mg BID of Ibudilast	Placebo BID or 20 mg BID of Ibudilast or 40 mg BID of Ibudilast
Endpoints	Safety, Tolerability, PK	Safety, Tolerability, PK	Withdrawal scores, Safety, Tolerability, PK

- Anticipated completion in 2H, 2010*

**Anticipated completion date based on current projections*

Note: QID refers to taking the medication four times per day; BID refers to taking the medication twice a day

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Commercially-Attractive Diversified Portfolio

Core Candidates	Preclinical	Phase I	Phase II	Phase III
MN-166 (MS and other CNS Disorders)	Kyorin	Pain/Addiction	MS	
MN-221 (Exacerbations of Acute Asthma/COPD)	KISSEI	COPD	Asthma	
Non-Core Candidates	**Preclinical**	**Phase I**	**Phase II**	**Phase III**
MN-001 (Bronchial Asthma)	Kyorin			
MN-305 (Anxiety Disorders)	Mitsubishi Tanabe Pharma			
MN-001 (Interstitial Cystitis)	Kyorin			
MN-029 (Solid Tumors)	ANGIOGENE			
MN-221 (Preterm Labor)	KISSEI			
MN-246 (Urinary Incontinence)	Mitsubishi Tanabe Pharma			
MN-447/462 (Thrombosis)	Meiji			

Management Team with Global Experience





Leadership	Years Experience	Background
Yuichi Iwaki, MD, PhD CEO & President	34	Professor at USC, formerly Professor at University of Pittsburgh; Advisor to JAFCO, Tanabe
Shintaro Asako, CPA Chief Financial Officer	12	KPMG USA (Audit), Arthur Andersen USA
Kirk Johnson, Ph.D. Chief Scientific Officer	20	Avigen, Genesoft Pharmaceuticals, Chiron Corporation
Michael Coffee Chief Business Officer	25	Chief Business Officer, Avigen, President of Elan Pharmaceuticals, North America
Masatsune Okajima, CMA VP, Head of Japanese Office	18	Daiwa Securities SMBC, Sumitomo Capital Securities, Sumitomo Bank

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Investment Highlights

Upcoming Near-Term Business Milestones:

1. Secure a global partnership for MN-166
2. Secure a strategic partnership for MN-221

Upcoming Clinical Milestones:

1. MN-221-CL-007 Phase II Study for Acute Exacerbations of Asthma
   - Anticipated completion 1Q, 2011*
2. MN-166 Study for Opioid Withdrawal
   - Anticipated completion in 2H, 2010*

Completed Milestones:

1. Completed Avigen merger December 18, 2009
2. Announced Positive MN-221-CL-010 Phase Ib Study Results in Moderate-to-Severe COPD Patients on March 17, 2010
3. Secured $15M Venture Debt from Oxford Finance Corp. on May 10, 2010

**Anticipated completion dates based on current projections*