

O'Toole David D  
 Form 3  
 April 12, 2012

**FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

OMB APPROVAL

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**INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,  
 Section 17(a) of the Public Utility Holding Company Act of 1935 or Section  
 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

|   |  |  |   |  |
|---|--|--|---|--|
| 1. Name and Address of Reporting Person *<br>O'Toole David D<br>(Last) (First) (Middle) | 2. Date of Event Requiring Statement<br>(Month/Day/Year)<br>04/10/2012 | 3. Issuer Name and Ticker or Trading Symbol<br>MEDICINOVA INC [MNOV] | 4. Relationship of Reporting Person(s) to Issuer<br><br>(Check all applicable)<br><br><input checked="" type="checkbox"/> Director <input type="checkbox"/> 10% Owner<br><input type="checkbox"/> Officer <input type="checkbox"/> Other<br>(give title below)    (specify below) | 5. If Amendment, Date Original Filed(Month/Day/Year) |
|---|--|--|---|--|

C/O MEDICINOVA,  
 INC., 4350 LA JOLLA  
 VILLAGE DR., STE 950  
 (Street)

SAN DIEGO, CA 92122  
 (City) (State) (Zip)

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

**Table I - Non-Derivative Securities Beneficially Owned**

|                                    |  |   |  |
|------------------------------------|--|---|--|
| 1. Title of Security<br>(Instr. 4) | 2. Amount of Securities Beneficially Owned<br>(Instr. 4) | 3. Ownership Form:<br>Direct (D)<br>or Indirect (I)<br>(Instr. 5) | 4. Nature of Indirect Beneficial Ownership<br>(Instr. 5) |
|------------------------------------|--|---|--|

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

SEC 1473 (7-02)

**Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.**

**Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

|   |  |  |  |   |  |
|---|--|--|--|---|--|
| 1. Title of Derivative Security<br>(Instr. 4) | 2. Date Exercisable and Expiration Date<br>(Month/Day/Year)<br><br>Date Exercisable    Expiration Date | 3. Title and Amount of Securities Underlying Derivative Security<br>(Instr. 4)<br><br>Title    Amount or Number of | 4. Conversion or Exercise Price of Derivative Security | 5. Ownership Form of Derivative Security:<br>Direct (D) | 6. Nature of Indirect Beneficial Ownership<br>(Instr. 5) |
|---|--|--|--|---|--|

Shares

or Indirect  
(I)  
(Instr. 5)

## Reporting Owners

| Reporting Owner Name / Address   | Relationships |           |         |       |
|--|---------------|-----------|---------|-------|
|  | Director      | 10% Owner | Officer | Other |
| O'Toole David D<br>C/O MEDICINOVA, INC.<br>4350 LA JOLLA VILLAGE DR., STE 950<br>SAN DIEGO, CA 92122 | X             | A         | A       | A     |

## Signatures

/s/ Michael Coffee,  
Attorney-in-Fact

04/12/2012

\_\_Signature of Reporting Person

Date

## Explanation of Responses:

### No securities are beneficially owned

\* If the form is filed by more than one reporting person, *see* Instruction 5(b)(v).

\*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations. *See* 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *See* Instruction 6 for procedure.

Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.