

Nijhawan Sandeep  
Form 3  
March 15, 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 \*

Â Nijhawan Sandeep  
(Last) (First) (Middle)

2. Date of Event Requiring Statement

(Month/Day/Year)  
03/14/2012

3. Issuer Name and Ticker or Trading Symbol  
INTERMOLECULAR INC [IMI]

4. Relationship of Reporting Person(s) to Issuer

5. If Amendment, Date Original Filed(Month/Day/Year)

(Check all applicable)

INTERMOLECULAR,  
INC.,Â 3011 NORTH FIRST  
STREET

(Street)

Director  10% Owner  
 Officer  Other  
(give title below) (specify below)  
VP&GM Clean Energy Group

SAN JOSE,Â CAÂ 95134-2004

(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  
(Instr. 4)

2. Amount of Securities Beneficially Owned  
(Instr. 4)

3. Ownership Form:  
Direct (D)  
or Indirect (I)  
(Instr. 5)

4. Nature of Indirect Beneficial Ownership  
(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  
(Instr. 4)

2. Date Exercisable and Expiration Date  
(Month/Day/Year)

3. Title and Amount of Securities Underlying Derivative Security  
(Instr. 4)

4. Conversion or Exercise Price of Derivative Security

5. Ownership Form of Derivative Security:  
Direct (D)

6. Nature of Indirect Beneficial Ownership  
(Instr. 5)

Date Exercisable Expiration Date

Title Amount or Number of

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|                             |                           |            |              | Shares  |         | or Indirect<br>(I)<br>(Instr. 5) |   |
|-----------------------------|---------------------------|------------|--------------|---------|---------|----------------------------------|---|
| Stock Option (right to buy) | 05/25/2012 <sup>(1)</sup> | 06/05/2021 | Common Stock | 122,499 | \$ 6.2  | D                                | Â |
| Stock Option (right to buy) | 02/01/2013 <sup>(2)</sup> | 01/22/2022 | Common Stock | 17,500  | \$ 8.84 | D                                | Â |

## Reporting Owners

| Reporting Owner Name / Address   | Relationships |           |                            |       |
|--|---------------|-----------|----------------------------|-------|
|  | Director      | 10% Owner | Officer                    | Other |
| Nijhawan Sandeep<br>INTERMOLECULAR, INC.<br>3011 NORTH FIRST STREET<br>SAN JOSE, CA 95134-2004 | Â             | Â         | Â VP&GM Clean Energy Group | Â     |

## Signatures

/s/ Sandeep Nijhawan 03/15/2012

\*\*Signature of Reporting Person Date

## Explanation of Responses:

- \* 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).

(1) The shares vest pursuant to the following schedule: Twenty Five Percent (25%) of the shares subject to the option vest on the first anniversary measured from May 25, 2011 (the "Vesting Commencement Date") and the remaining shares subject to the option vest in 36 successive, equal monthly installments thereafter on each monthly anniversary of the Vesting Commencement Date, subject to the Reporting Person's continued employment or service relationship with the Issuer on each such vesting date.

(2) The shares vest pursuant to the following schedule: Twenty Five Percent (25%) of the shares subject to the option vest on the first anniversary measured from February 1, 2012 (the "Vesting Commencement Date") and the remaining shares subject to the option vest in 36 successive, equal monthly installments thereafter on each monthly anniversary of the Vesting Commencement Date, subject to the Reporting Person's continued employment or service relationship with the Issuer on each such vesting date.

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.