

CMEA VENTURES VI LP  
 Form 3  
 November 17, 2011

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

OMB APPROVAL

OMB Number: 3235-0104  
 Expires: January 31, 2015  
 Estimated average burden hours per response... 0.5

**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 *			2. Date of Event Requiring Statement (Month/Day/Year)	3. Issuer Name and Ticker or Trading Symbol	
Â CMEA VENTURES VI LP			11/15/2011	INTERMOLECULAR INC [IMI]	
(Last)	(First)	(Middle)	4. Relationship of Reporting Person(s) to Issuer		
ONE LETTERMAN DRIVE, Â BUILDING C, SUITE CM500			(Check all applicable)		
(Street)			<input type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner <input type="checkbox"/> Officer <input type="checkbox"/> Other (specify below)		
SAN FRANCISCO, Â CA Â 94129-2402			5. If Amendment, Date Original Filed(Month/Day/Year)		
(City)	(State)	(Zip)	6. Individual or Joint/Group Filing(Check Applicable Line)		
			<input type="checkbox"/> Form filed by One Reporting Person <input checked="" type="checkbox"/> 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)
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Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

SEC 1473 (7-02)

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**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) or Indirect	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable    Expiration Date	Title    Amount or Number of Shares			

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						(1) (Instr. 5)	
Series A Convertible Preferred Stock <u>(1)</u>	Â <u>(2)</u>	Â <u>(3)</u>	Common Stock	1,923,912	\$ 0	I	See Footnote <u>(4)</u>
Series A Convertible Preferred Stock <u>(1)</u>	Â <u>(2)</u>	Â <u>(3)</u>	Common Stock	44,798	\$ 0	I	See Footnote <u>(5)</u>
Series B Convertible Preferred Stock <u>(1)</u>	Â <u>(2)</u>	Â <u>(3)</u>	Common Stock	3,663,703	\$ 0	I	See Footnote <u>(4)</u>
Series B Convertible Preferred Stock <u>(1)</u>	Â <u>(2)</u>	Â <u>(3)</u>	Common Stock	86,249	\$ 0	I	See Footnote <u>(5)</u>
Series C Convertible Preferred Stock <u>(1)</u>	Â <u>(2)</u>	Â <u>(3)</u>	Common Stock	998,371	\$ 0	I	See Footnote <u>(4)</u>
Series C Convertible Preferred Stock <u>(1)</u>	Â <u>(2)</u>	Â <u>(3)</u>	Common Stock	23,389	\$ 0	I	See Footnote <u>(5)</u>
Series D Convertible Preferred Stock <u>(1)</u>	Â <u>(2)</u>	Â <u>(3)</u>	Common Stock	495,503	\$ 0	I	See Footnote <u>(4)</u>
Series D Convertible Preferred Stock <u>(1)</u>	Â <u>(2)</u>	Â <u>(3)</u>	Common Stock	11,613	\$ 0	I	See Footnote <u>(5)</u>
Series E Convertible Preferred Stock <u>(1)</u>	Â <u>(2)</u>	Â <u>(3)</u>	Common Stock	294,011	\$ 0	I	See Footnote <u>(4)</u>
Series E Convertible Preferred Stock <u>(1)</u>	Â <u>(2)</u>	Â <u>(3)</u>	Common Stock	6,894	\$ 0	I	See Footnote <u>(5)</u>

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
CMEA VENTURES VI LP ONE LETTERMAN DRIVE BUILDING C, SUITE CM500 SAN FRANCISCO, CA 94129-2402	Â	Â X	Â	Â
CMEA Ventures VI GmbH & Co. KG ONE LETTERMAN DRIVE BUILDING C, SUITE CM500 SAN FRANCISCO, CA 94129-2402	Â	Â X	Â	Â
CMEA Ventures VI Management, L.P. ONE LETTERMAN DRIVE BUILDING C, SUITE CM500 SAN FRANCISCO, CA 94129-2402	Â	Â X	Â	Â
BARUCH THOMAS R ONE LETTERMAN DRIVE BUILDING C, SUITE CM500 SAN FRANCISCO, CA 94129-2402	Â	Â X	Â	Â

Collier David J  
 ONE LETTERMAN DRIVE  
 BUILDING C, SUITE CM500  
 SAN FRANCISCO, CA 94129-2402

^ ^ X ^ ^

Handelsman Karl D.  
 ONE LETTERMAN DRIVE  
 BUILDING C, SUITE CM500  
 SAN FRANCISCO, CA 94129-2402

^ ^ X ^ ^

Sohail Faysal A.  
 ONE LETTERMAN DRIVE  
 BUILDING C, SUITE CM500  
 SAN FRANCISCO, CA 94129-2402

^ ^ X ^ ^

Watson James F  
 ONE LETTERMAN DRIVE  
 BUILDING C, SUITE CM500  
 SAN FRANCISCO, CA 94129-2402

^ ^ X ^ ^

## Signatures

CMEA VENTURES VI, L.P. By: CMEA Ventures VI Management, L.P., its General Partner 11/17/2011  
 By: /s/ David J. Collier, General Partner

\_\_Signature of Reporting Person Date

CMEA VENTURES VI GMBH & CO. KG By: CMEA Ventures VI Management, L.P., its 11/17/2011  
 managing limited partner By: /s/ David J. Collier, General Partner

\_\_Signature of Reporting Person Date

CMEA VENTURES VI MANAGEMENT, L.P. By: /s/ David J. Collier, General Partner 11/17/2011

\_\_Signature of Reporting Person Date

/s/ Thomas R. Baruch 11/17/2011

\_\_Signature of Reporting Person Date

/s/ David J. Collier 11/17/2011

\_\_Signature of Reporting Person Date

/s/ Karl D. Handelsman 11/17/2011

\_\_Signature of Reporting Person Date

/s/ Faysal A. Sohail 11/17/2011

\_\_Signature of Reporting Person Date

/s/ James F. Watson 11/17/2011

\_\_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) Each share of Series A, Series B, Series C, Series D and Series E Convertible Preferred Stock will automatically convert on a 1-for-2 basis into common stock upon the consummation of the Issuer's initial public offering.
- (2) The securities are immediately convertible.

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- (3) The expiration date is not relevant to the conversion of these securities.

The shares are held by CMEA Ventures VI, L.P. ("CMEA Ventures VI"). CMEA Ventures VI Management, L.P. ("CMEA VI Management") is the general partner of CMEA Ventures VI. Thomas R. Baruch, David J. Collier, Karl D. Handelsman, Faysal A. Sohail and James F. Watson are the general partners of CMEA VI Management and, as such, have voting and investment power over the shares held by CMEA Ventures VI. Each of the Reporting Persons disclaims beneficial ownership of the shares reported herein, except to the extent of any proportionate pecuniary interest therein.

- The shares are held by CMEA Ventures VI GmbH & Co. KG ("CMEA Ventures VI GmbH"). CMEA Ventures VI Management, L.P. ("CMEA VI Management") is the managing limited partner of CMEA Ventures VI GmbH. Thomas R. Baruch, David J. Collier, Karl D. Handelsman, Faysal A. Sohail and James F. Watson are the general partners of CMEA VI Management and, as such, have voting and investment power over the shares held by CMEA Ventures VI GmbH. Each of the Reporting Persons disclaims beneficial ownership of the shares reported herein, except to the extent of any proportionate pecuniary interest therein.

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.