

INTERMOLECULAR INC

Reported by
MILLER LLOYD I III

FORM 4

(Statement of Changes in Beneficial Ownership)

Filed 05/24/17 for the Period Ending 05/23/17

Address	3011 NORTH FIRST STREET SAN JOSE, CA 95134
Telephone	(408) 582-5700
CIK	0001311241
Symbol	IMI
Fiscal Year	12/31

FORM 4

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

OMB APPROVAL
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or
Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person * MILLER LLOYD I III (Last) (First) (Middle) 3300 SOUTH DIXIE HIGHWAY, SUITE 1-365 (Street) WEST PALM BEACH, FL 33405 (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol INTERMOLECULAR INC [IMI]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner <input type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below)
3. Date of Earliest Transaction (MM/DD/YYYY) <p align="center">5/23/2017</p>		6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person
4. If Amendment, Date Original Filed (MM/DD/YYYY)		

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Trans. Date	2A. Deemed Execution Date, if any	3. Trans. Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	5/23/2017		P		14300	A	\$0.85	2802816 (1)	I	By Trust A-4 - Lloyd I. Miller
Common Stock	5/23/2017		P		14720	A	\$0.85	2817536 (1)	I	By Trust A-4 - Lloyd I. Miller
Common Stock								320136 (1)	I	By Trust A-3 - Lloyd I. Miller
Common Stock								49318 (1)	I	By LIMFAM LLC
Common Stock								14149 (1)	I	By Milfam I L.P.
Common Stock								1780911 (1)	I	By Milfam II L.P.
Common Stock								70368	D	

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

1. Title of Derivate Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Trans. Date	3A. Deemed Execution Date, if any	4. Trans. Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				

Explanation of Responses:

(1) The reporting person disclaims beneficial ownership of these securities except to the extent of his pecuniary interest therein. This filing shall not be deemed an admission that the reporting person is, for purposes of Section 16 of the Securities Exchange Act of 1934 (the "Act") or otherwise, the beneficial owner of any equity securities covered by this filing.

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
MILLER LLOYD I III 3300 SOUTH DIXIE HIGHWAY SUITE 1-365 WEST PALM BEACH, FL 33405		X		

Signatures

/s/ Paul N. Silverstein Attorney-in-fact

5/24/2017

**Signature of Reporting Person

Date

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

* If the form is filed by more than one reporting person, *see* Instruction 4(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.

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.