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| OMB APPROVAL | |
| OMB Number: | 3235-0287 |
| Estimated average burden hours per response: | 0.5 |

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

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* <u>van Walsem Johan</u> (Last) (First) (Middle) <u>C/O METABOLIX, INC.</u> <u>21 ERIE STREET</u> (Street) <u>CAMBRIDGE MA 02139</u> (City) (State) (Zip) | 2. Issuer Name and Ticker or Trading Symbol <u>METABOLIX, INC. [MBLX]</u> | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>VP Mfg, Dev. and Ops.</u> |
| | 3. Date of Earliest Transaction (Month/Day/Year) <u>11/05/2007</u> | |
| | 4. If Amendment, Date of Original Filed (Month/Day/Year) | 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 |

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

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction 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 | 11/05/2007 | | M ⁽¹⁾ | | 5,000 | A | \$1.6518 | 5,000 | D | |
| Common Stock | 11/05/2007 | | s ⁽¹⁾ | | 5,000 | D | \$27.0249 ⁽³⁾ | 0 | D | |

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

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction 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 (Month/Day/Year) | | 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: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) | |
|--|--|--------------------------------------|--|--------------------------------|---|--|-------|--|-----------------|---|--|--|---|--|-------|
| | | | | Code | V | (A) | (D) | Date Exercisable | Expiration Date | | | | | | Title |
| Stock Option (right to buy) | \$1.6518 | 11/05/2007 | | M ⁽¹⁾ | | | 5,000 | (2) | 09/20/2015 | Common Stock | 5,000 | \$0 | 149,806 | D | |

Explanation of Responses:

- Transaction effected pursuant to a Rule 10b5-1 trading plan established by the reporting person on 3/15/07.
- This stock option vests in quarterly installments over a period of 4 years from 10/1/04.
- Price reflected is the average sale price for the shares sold. Please see attached Exhibit 99 for a complete list of all sales by sale price.

/s/ Sarah P. Cecil, attorney-in-fact 11/07/2007

** 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 Number.

PRICE QUANTITY

| | |
|---------|-------|
| \$26.41 | 1,500 |
| \$27.03 | 25 |
| \$27.05 | 287 |
| \$27.06 | 100 |
| \$27.07 | 100 |
| \$27.08 | 290 |
| \$27.13 | 13 |
| \$27.25 | 375 |
| \$27.26 | 100 |
| \$27.27 | 100 |
| \$27.33 | 10 |
| \$27.37 | 100 |
| \$27.25 | 196 |
| \$27.26 | 100 |
| \$27.28 | 700 |
| \$27.31 | 304 |
| \$27.46 | 100 |
| \$27.47 | 100 |
| \$27.53 | 100 |
| \$27.54 | 100 |
| \$27.66 | 100 |
| \$27.69 | 200 |