

**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

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

1. Name and Address of Reporting Person * <u>Peoples Oliver P</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) <input checked="" type="checkbox"/> Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>VP Research, CSO</u>
	3. Date of Earliest Transaction (Month/Day/Year) <u>12/06/2007</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	12/17/2007		M <sup>(1)</sup>		20,000	A	\$3.3036	340,762	D	
Common Stock	12/17/2007		S <sup>(1)</sup>		20,000	D	\$19.71 <sup>(3)</sup>	320,762	D	
Common Stock								16,346	I	By George Stormont Trust <sup>(2)</sup>

**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)	\$3.3036	12/17/2007		M <sup>(1)</sup>			20,000	(4)	03/08/2010	Common Stock	20,000	\$0	31,922	D	

**Explanation of Responses:**

- Transaction effected pursuant to a rule 10b5-1 trading plan established by the reporting person on 11/28/07.
- Held by a trust for the benefit of certain family members. The reporting person disclaims beneficial ownership except to the extent of his pecuniary interest, if any.
- 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.
- This stock option is fully vested and exercisable.

/s/ Sarah P. Cecil, attorney-in-fact 12/19/2007

\*\* 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.

Exhibit 99 to Form 4 filed on behalf of Oliver P.  
Peoples for Transaction Date 12/17/07

Shares	Price
100	\$19.92
300	\$19.82
300	\$19.92
261	\$19.94
1,500	\$19.97
1,200	\$19.95
100	\$19.79
200	\$19.87
500	\$19.85
200	\$19.86
700	\$19.90
100	\$19.80
600	\$19.76
300	\$19.81
100	\$19.56
100	\$19.67
100	\$19.69
700	\$19.65
100	\$19.64
300	\$19.62
1,700	\$19.60
400	\$19.61
300	\$19.58
1,100	\$19.55
100	\$19.51
1,100	\$19.50
500	\$19.53
700	\$19.52
600	\$19.57
700	\$19.63
200	\$19.66
100	\$19.78
100	\$19.73
2,200	\$19.70
1,539	\$19.75
700	\$19.71
200	\$19.72