FORM 4

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

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

$\overline{}$	Check this box if no longer subject to Section 16. Form 4
	or Form E obligations may continue. Can Instruction 1/h)

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

1. Name and Address of Reporting Person* Vitto Vincent					2. Issuer Name and Ticker or Trading Symbol MERCURY COMPUTER SYSTEMS INC [ MRCY ]								nship of Reporting Police I applicable) Director Officer (give title	,,	10%	Owner (specify below)
(Last) (First) (Middle) 199 RIVERNECK ROAD					3. Date of Earliest Transaction (Month/Day/Year) 11/17/2008											
(Street) CHELMSFORD MA 01824 (City) (State) (Zip)				If Amendment, Date of Original Filed (Month/Day/Year)							6. Individ	. Individual or Joint/Group Filing (Check Applicable Line)  X Form filed by One Reporting Person  Form filed by More than One Reporting Person				
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned															
, (,			Date Ex		cution Date,	3. Transaction Code (Instr. 8) 4. Securi 3, 4 and			rities Acquired (A) or Disposed Of (D d 5)		5. Amount of Securiti Beneficially Owned F	ollowing Di	Ownership Form: irect (D) or Indirec			
			(Month/Day/Year)		nth/Day/Year)	Code V	Amo	unt	nt (A) or (D) Price		Reported Transaction(s) (Instr. 3 and 4)		nstr. 4)	Ownership (Instr. 4)		
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																
Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	Date (Month/Day/Year)	Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		de S. 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 Under Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following	Form: Direct (D) or Indire	Indirect Beneficial
				Code	v	(A)	(D)	Date Exercisable	Expirati Date	on Title		Amount or Number of Sha	res	Reported Transaction (Instr. 4)	n(s)	
Non-Qualified Stock Option (Right to buy)	\$4.92	11/17/2008		A		16,000		11/17/2008(1	11/17/2	015	Common	16,000	\$0.00 <sup>(2)</sup>	16,000	D	

- This option vests as to 8,000 shares on each of November 17, 2008 and 2009.
- 2. Field N/A to this transaction but was completed to allow for electronic filing only.

Karl D. Noone, Attorney-in-fact \*\* Signature of Reporting Person

11/18/2008

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.

LIMITED POWER OF ATTORNEY FOR MERCURY COMPUTER SYSTEMS, INC. SECTION 16(a) FILINGS

Know all by these presents, that the undersigned hereby constitutes and appoints each of Robert E. Hult, Senior Vice-President and Chief Financial Officer, Kai

(1) execute for and on behalf of the undersigned, in the undersigned's capacity as an officer, director and/or shareholder of Mercury Computer Systems, Inc. (the

do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete and execute any such Form 3, 4 or 5, or

take any other action of any type whatsoever which, in the opinion of such attorney-in-fact, may be necessary or desirable in connection with the foregoing at The undersigned hereby grants to each such attorney-in-fact full power and authority to do and perform any and every act and thing whatsoever requisite, necess

The undersigned agrees that each such attorney-in-fact shall not be liable for any error of judgment or for any act done or omitted to be done or for any mistary. This Limited Power of Attorney shall remain in full force and effect until the undersigned is no longer required to file Forms 3, 4, and 5 with respect to the and transactions in securities of the Company, unless earlier revoked by the undersigned in a signed writing delivered to the foregoing attorneys-in-fact. This Limited Power of Attorney to be executed as of this 3 day of June, 2008.

/s/ Vincent Vitto

LIBC/1640386.1

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