OMB APPROVAL OMB NUMBER: 3235-0145 EXPIRES: DECEMBER 31, 1997 ESTIMATED AVERAGE BURDEN HOURS PER RESPONSE .... 14.90

UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

SCHEDULE 13G

UNDER THE SECURITIES EXCHANGE ACT OF 1934

(AMENDMENT NO. 1)\*

Mercury Computer Systems, Inc.

(Name of Issuer)

Common Stock

·

(Title of Class of Securities)

589378108

(CUSIP Number)

Check the following box if a fee is being paid with this statement []. (A fee is not required only if the filing person: (1) has a previous statement on file reporting beneficial ownership of more than five percent of the class of securities described in Item 1; and (2) has filed no amendment subsequent thereto reporting beneficial ownership of five percent or less of such class.) (See Rule 13d-7).

\*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

CONFORMED COPY TO FILING MADE ON FEBRUARY 2, 2000

SEC 1745 (2-95)

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cusi	P NO. 589378108		PAGE	OF PAGES
1.	PETER B. CAN	ING PERSON IDENTIFICATION NO. OF ABOVE PERSO NELL & CO., INC.	N	
 2.	13-3346990 CHECK THE APPR	OPRIATE BOX IF A MEMBER OF A GROUP	*	(a) [ ] (b) [ ]
 3.	SEC USE ONLY			
4.	CITIZENSHIP OR DELAWARE	PLACE OF ORGANIZATION		
	NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5. SOLE VOTING POWER		1,384,860
		6. SHARED VOTING POWER		
		7. SOLE DISPOSITIVE POWER		1,384,860
		8. SHARED DISPOSITIVE POWER		
 9.	AGGREGATE AMOU	NT BENEFICIALLY OWNED BY EACH REPO	RTING PER	SON
	1,384,860 WHIC	H CONSISTS SOLELY OF COMMON STOCK		
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*		[]	
 11.	PERCENT OF CLA 6.64%	SS REPRESENTED BY AMOUNT IN ROW 9		
 12.	TYPE OF REPORT	ING PERSON*		

\*SEE INSTRUCTION BEFORE FILLING OUT!

Item 1(a).	Name of Issuer:		
	Mercury Computer Systems, Inc.		
Item 1(b).	Address of Issuer's Principal Executive Offices:		
	199 Riverneck Road Chelmsford, MA 01824		
Item 2(a).	Name of Person Filing:		
	Peter B. Cannell & Co., Inc.		
Item 2(b).	Address of Principal Business Office:		
	645 Madison Avenue, New York, NY 10022		
Item 2(c).	Citizenship:		
	Delaware Corporation		
Item 2(d).	Title of Class of Securities:		
	Common Stock		
Item 2(e).	CUSIP No. 589378108		
Item 3.	Person filing statement is:		
(e) [X]	Investment Adviser registered under Section 203 of the Investment Advisers Act of 1940.		
Item 4.	Ownership:		
(a)	Amount Beneficially Owned: 1,384,860		
(b)	Percent of Class: 6.64%		
(c)	Number of shares as to which such person has sole power to dispose or to direct the disposition of: 1,384,860		
Item 5.	Ownership of Five Percent or less: N/A		

Item 6. Ownership of More than Five Percent: N/A

- Item 7. Identification and Classification of the Subsidiary: N/A.
- Item 8. Identification and Classification of Members of Group: N/A.
- Item 9. Notice of Dissolution: N/A.
- Item 10. Certification.

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired in the ordinary course of business and were not acquired for the purpose of and do not have the effect of changing or influencing the control of the issuer of such securities and were not acquired in connection with or as a participant in any transaction having such purposes or effect.

## SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief,  ${\tt I}$  certify that the information set forth in this statement is true, complete and correct.

February 2, 2000 (Date)

Patricia Kogan (Signature)

Patricia Kogan, Vice President (Name/Title)