

MERCURY COMPUTER SYSTEMS INC  
Form S-8  
March 11, 2011

As filed with the Securities and Exchange Commission on March 11, 2011

Registration No. 333-

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

**FORM S-8**  
**REGISTRATION STATEMENT**  
*UNDER*  
*THE SECURITIES ACT OF 1933*

**MERCURY COMPUTER SYSTEMS, INC.**

(Exact Name of Registrant as Specified in its Charter)

Massachusetts  
(State of Incorporation)

201 Riverneck Road

04-2741391  
(I.R.S. Employer Identification Number)

**Chelmsford, Massachusetts 01824**

**(978) 256-1300**

**(Address of Principal Executive Offices)**

**MERCURY COMPUTER SYSTEMS, INC.**

**Amended and Restated 2005 Stock Incentive Plan**

**(Full Title of the Plan)**

**Gerald M. Haines II**

**Senior Vice President, Corporate Development,**

**Chief Legal Officer, and Secretary**

**Mercury Computer Systems, Inc.**

**201 Riverneck Road**

**Chelmsford, Massachusetts 01824**

**(978) 256-1300**

**(Name, Address and Telephone Number, Including Area Code, of Agent for Service)**

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of large accelerated filer, accelerated filer, and smaller reporting company in Rule 12b-2 of the Exchange Act.

Large accelerated filer	<input type="checkbox"/>	Accelerated filer	<input checked="" type="checkbox"/>
Non-accelerated filer	<input type="checkbox"/> (Do not check if a smaller reporting company)	Smaller reporting company	<input type="checkbox"/>

## CALCULATION OF REGISTRATION FEE

<b>Title of Securities to be Registered</b>	<b>Amount to be Registered(1)(2)(3)</b>	<b>Proposed Maximum Offering Price Per Share(4)</b>	<b>Proposed Maximum Aggregate Offering Price(4)</b>	<b>Amount of Registration Fee</b>
Common Stock	1,077,680	\$18.87	\$20,335,821	\$2,361.00

- (1) 77,680 shares of the registrant's common stock listed were part of the shares previously registered by the registrant on Form S-8 (File No. 333-101993 filed on December 19, 2002) in connection with the registrant's 1997 Stock Option Plan, as amended. Includes an additional 1,000,000 shares of the registrant's common stock that were not previously registered.
- (2) This registration statement also covers preferred stock purchase rights (the Rights) which are presently attached to and trade with the registrant's common stock. Any value attributable to the Rights is reflected in the market price of the common stock.
- (3) In addition, pursuant to Rule 416(a) under the Securities Act of 1933, as amended (the Securities Act), this registration statement also covers an indeterminate number of additional shares of common stock to be offered or sold as a result of the anti-dilution provisions of the employee benefit plan described herein, including to prevent dilution resulting from any reorganization, recapitalization, reclassification, stock dividend, stock split, or other similar change.
- (4) Calculated in accordance with Rule 457(c) and (h) under the Securities Act solely for the purpose of determining the amount of the registration fee, based on the average of the high and low prices on the NASDAQ Global Select Market on March 7, 2011.

### EXPLANATORY NOTE

This registration statement is being filed solely for the purpose of registering 1,077,680 additional shares of common stock, par value \$0.01 per share ( Common Stock ), of Mercury Computer Systems, Inc. (the Company ) to be offered to participants under the Company s Amended and Restated 2005 Stock Incentive Plan (the 2005 Plan ), originally adopted in 2005. The number of shares of Common Stock reserved and available for issuance under the 2005 Plan includes 7,812,045 shares which were previously registered with the Securities and Exchange Commission (the Commission ) on Form S-8 (File Nos. 333-129929 filed on November 23, 2005, 333-139019 filed on November 30, 2006, 333-149046 filed on February 4, 2008, 333-156364 filed on December 19, 2008, and 333-163705 filed on December 14, 2009) (collectively, the Prior Registration Statement ), plus the number of shares underlying any grants previously made under the Company s 1997 Stock Option Plan, as amended (the 1997 Plan ) that are forfeited, canceled, or are terminated (other than by exercise) from and after the effective date of the 2005 Plan. An aggregate of 77,680 additional shares have been included in the shares reserved for issuance under the 2005 Plan as a result of the forfeiture, cancellation, or termination (other than by exercise) of grants previously made under the 1997 Plan. This registration statement also covers the registration of 1,000,000 shares of Common Stock added to the 2005 Plan in connection with its amendment and restatement, which was approved by the Company s shareholders on October 21, 2010.

Pursuant to General Instruction E of Form S-8, the contents of the Prior Registration Statement are incorporated herein by reference, except as otherwise noted below.

### PART II

#### INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

##### ITEM 3. INCORPORATION OF DOCUMENTS BY REFERENCE.

The following documents are incorporated herein by reference:

- (a) The Company s annual report on Form 10-K for the fiscal year ended June 30, 2010, as filed with the Commission on August 19, 2010;
- (b) The Company s quarterly report on Form 10-Q for the fiscal quarter ended September 30, 2010, as filed with the Commission on November 4, 2010;
- (c) The Company s quarterly report on Form 10-Q for the fiscal quarter ended December 31, 2010, as filed with the Commission on February 3, 2011;
- (d) The Company s current reports on Form 8-K filed with the Commission on July 15, 2010, August 10, 2010, September 14, 2010, October 22, 2010, January 12, 2011, February 11, 2011, and February 16, 2011;
- (e) The description of the Company s Common Stock contained in the Company s registration statement on Form 8-A dated January 7, 1998, as filed with the Commission pursuant to Section 12 of the Securities Exchange Act of 1934, as amended (the Exchange Act ), including any amendment thereto or report filed for the purpose of updating such description; and
- (f) The description of the Company s preferred stock purchase rights contained in the Company s registration statement on Form 8-A dated December 15, 2005, as filed with the Commission pursuant to Section 12 of the Exchange Act, including any amendment thereto or report filed for the purpose of updating such description.

All documents subsequently filed by the Company pursuant to Sections 13(a), 13(c), 14, and

15(d) of the Exchange Act, prior to the filing of a post-effective amendment which indicates that all securities offered hereby have been sold or that deregisters all securities then remaining unsold, shall be deemed to be incorporated by reference herein and to be a part hereof from the date of the filing of such documents.

**ITEM 5. INTERESTS OF NAMED EXPERTS AND COUNSEL**

The validity of the Common Stock offered under this registration statement will be passed upon for the Company by Bingham McCutchen LLP, Boston, Massachusetts. Bingham McCutchen LLP does not have a substantial interest, direct or indirect, in the Company.

**ITEM 8. EXHIBITS.**

Exhibit	Description
4.1	Articles of Organization (incorporated herein by reference to Exhibit 3.1 of the Company's annual report on Form 10-K for the fiscal year ended June 30, 2009).
4.2	Articles of Amendment (incorporated herein by reference to Exhibit 3.2 of the Company's annual report on Form 10-K for the fiscal year ended June 30, 2010).
4.3	Articles of Amendment (incorporated herein by reference to Exhibit 1 of the Company's registration statement on Form 8-A, as filed with the Commission on December 15, 2005).
4.4	By-laws, as amended through September 22, 2004 (incorporated herein by reference to Exhibit 4.4 of the Company's registration statement on Form S-8, as filed with the Commission on December 14, 2009).
4.5	Amendment to By-laws dated December 17, 2007 (incorporated herein by reference to Exhibit 3.1 to the Company's current report on Form 8-K, as filed with the Commission on December 20, 2007).
4.6	Amendment to By-laws dated January 21, 2008 (incorporated herein by reference to Exhibit 3.1 to the Company's current report on Form 8-K, as filed with the Commission on January 24, 2008).
4.7	Amendment to By-laws dated September 14, 2009 (incorporated herein by reference to Exhibit 3.1 to the Company's current report on Form 8-K, as filed with the Commission on September 14, 2009).
4.8	Shareholder Rights Agreement, dated as of December 14, 2005, between the Company and Computershare Trust Company, N.A. (formerly known as EquiServe Trust Company, N.A.) (incorporated herein by reference to Exhibit 2 of the Company's registration statement on Form 8-A, as filed with the Commission on December 15, 2005).
4.9	Mercury Computer Systems, Inc. Amended and Restated 2005 Stock Incentive Plan (incorporated herein by reference to Appendix A of the Company's Definitive Proxy Statement filed with the Commission on September 20, 2010).
5.1*	Opinion of Bingham McCutchen LLP.
23.1*	Consent of KPMG LLP.
23.2	Consent of Bingham McCutchen LLP (contained in the opinion filed as Exhibit 5.1 to this registration statement).
24.1	Power of Attorney (included in signature page to this registration statement).
*	Filed herewith.

**SIGNATURES**

Pursuant to the requirements of the Securities Act of 1933, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the town of Chelmsford, the Commonwealth of Massachusetts on this 11th day of March, 2011.

MERCURY COMPUTER SYSTEMS, INC.

By: Gerald M. Haines II  
 Gerald M. Haines II  
 Senior Vice President, Corporate Development,  
 Chief Legal Officer, and Secretary

**Power of Attorney**

KNOW ALL MEN BY THESE PRESENTS that each person whose signature appears below constitutes and appoints Mark Aslett, Robert E. Hult, and Gerald M. Haines II his true and lawful attorneys-in-fact and agents, each acting alone, with full powers of substitution and resubstitution, for him or in his name, place and stead, in any and all capacities to sign any and all amendments or post-effective amendments to this registration statement (or any registration statement for the same offering that is to be effective upon filing pursuant to Rule 462(b) under the Securities Act of 1933), and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, each acting alone, full power and authority to do and perform each and every act and thing requisite or necessary to be done in and about the premises, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents, each acting alone, or his substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act of 1933, this registration statement has been signed by the following persons in the capacities and on the dates indicated.

Signature	Title	Date
	President, Chief Executive Officer, and Director	March 11, 2011
/s/ Mark Aslett Mark Aslett	(Principal Executive Officer)	
	Senior Vice President, Chief Financial Officer, and Treasurer	March 11, 2011
/s/ Robert E. Hult Robert E. Hult	(Principal Financial Officer)	
	Vice President, Controller, and Chief Accounting Officer	March 11, 2011
/s/ Charles A. Speicher Charles A. Speicher	(Principal Accounting Officer)	
	Chairman of the Board of Directors	March 11, 2011
/s/ Vincent Vitto Vincent Vitto		
	Director	March 11, 2011
/s/ James K. Bass James K. Bass		
	Director	March 11, 2011
/s/ George W. Chamillard George W. Chamillard		

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/s/ Michael A. Daniels Michael A. Daniels	Director	March 11, 2011
/s/ George K. Muellner George K. Muellner	Director	March 11, 2011
/s/ William K. O Brien William K. O Brien	Director	March 11, 2011
/s/ Lee C. Steele Lee C. Steele	Director	March 11, 2011

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