FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burden								
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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Name and Address of Reporting Person* Tseng Saria						2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC MPWR MPWR									all app	olicable) ctor	10%	Person(s) to Issuer 10% Owner	
(Last) (First) (Middle) 6409 GUADALUPE MINES ROAD						3. Date of Earliest Transaction (Month/Day/Year) 02/16/2012								X	Officer (give title below) VP & Genera		belov	r (specify v)	
(Street) SAN JOS (City)	Street) SAN JOSE CA 95120					4. If Amendment, Date of Original Filed (Month/Day/Year)									dividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Tabl	e I	- Non-Deriv	ative	Seci	ırities	s Ac	quire	d, D	isposed o	f, or E	Benefic	ially	Owne	ed			
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Yea					ar) E	2A. Deemed Execution Date, if any (Month/Day/Year)		, 1	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4			and 5) Secu Bene Own		nount of rities ficially ed wing	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									ode	v	Amount	(A) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)		((,	
Common Stock 02/16/20					2			J (1)	V	1,980	A	\$10.6505		103,381		D			
Common Stock 02/16/20				02/16/201	2			S ⁽²⁾		1,980	D	\$18.3165(3)		1	01,401	D			
		Та	ble	II - Derivat (e.g., pu							posed of, convertib				vned				
1. Title of Derivative Security (Instr. 3) 2. Conversion or Exercise Price of Derivative Security (Instr. 3)			ecution Date, ny		ransaction of Derivative Securities Acquirer (A) or Disposer of (D) (Instr. 3, and 5)			Expiration Date (Month/Day/Year) d Date Expiration			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) Amoun or Numbe of Title Shares		ut er		9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirec (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		

Explanation of Responses:

- 1. Acquired through the Company's qualified ESPP program.
- 2. In accordance with the reporting person's 10b5-1 trading plan.
- 3. The price is the weighted average sale price for the transactions reported on this line. The prices for the transactions reported on this line range from \$18.04 to \$18.51. The reporting person undertakes to provide, upon request by the staff of the Securities and Exchange Commission, the issuer, or a security holder of the issuer, full information regarding the number of shares sold at each separate price.

/s/ Saria Tseng

02/17/2012

** 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.