FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burden								
haura nor raananaa	0.5							

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]										Check	all appl	ionship of Reportir all applicable) Director Officer (give title		erson(s) to Is 10% O Other (wner
(Last) 6409 GU	,	rst) (E MINES ROAD	, , , ,					Earli 10	est Tra	ansacti	on (Mo	nth/Day/Ye		X	below) VP & Gene		eral (below)	эрсску		
(Street) SAN JOS (City)			951: Zip)	20	4.	4. If Amendment, Date of Original Filed (Month/Day/Year)											fividual or Joint/Group Filing (Check Applicable 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																				
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Year				ear)	2A. Deemed Execution Date			nte,	3. Transa Code (8)	ction	4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4				or 5. Am Secur Benet Owne		ount of ties cially	6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership	
										Code	v	Amount		(A) or (D)	Price					tr. 4)	(Instr. 4)
Common Stock 04/30/20					0					M ⁽¹⁾		10,000		Α	\$10	5	4:	45,000		D	
Common Stock 04/30/2010					0					S ⁽¹⁾		10,000		D	\$25.25	25.2542 ⁽²⁾		35,000		D	
	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)	Exe if a	Deemed cution Date, ny nth/Day/Year)	4. Trans Code 8)		ction of Deri Instr. Deri Secu Acq (A) of Disp of (I		oosed 0) tr. 3, 4	Expiration I (Month/Day/		Date		7. Title a Amount Securition Underly Derivativ Security and 4)	of es ing /e (Instr. 3	f of Dei		9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owner Form: Direct or Ind (I) (Ins 4)	Ownership Form: Direct (D) or Indirect (I) (Instr.	11. Nature of Indirect Beneficial Ownership (Instr. 4)
						,	v	(A)	(D)	Date Exerc	isable	Expiration Date		Title	Numbe of Shares						
Non- Qualified Stock Option (right to buy)	\$16	04/30/2010			M ⁽¹	1)			10,000	07/2	7/2009	07/27/201	4	Common Stock	10,00	0	\$0	18,800		D	

Explanation of Responses:

- 1. In accordance with the reporting person's 10b5-1 trading plan.
- 2. 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 \$25.25 to \$25.33. 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

<u>Saria Tseng</u> <u>05/03/2010</u>

** 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.