FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL									
OMB Number: 3235-028									
Estimated average burden									
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	Check this box if no longer subject
٦	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]									heck all ap	ctor	10	% Owner	
(Last) (First) (Middle) 6409 GUADALUPE MINES ROAD						3. Date of Earliest Transaction (Month/Day/Year) 02/25/2010										Officer (give title below) VP & Genera		Other (specify below)	
(Street) SAN JOS (City)	SAN JOSE CA 95120						4. If Amendment, Date of Original Filed (Month/Day/Year)									dual 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/						Execution Date,						rities Acquired (A			Secu Bend Own		6. Ownersh Form: Dire (D) or Indirect (I) (Instr. 4)		
									Code	v	Amount		A) or D)	Price	Repo	Following Reported Transaction(s) (Instr. 3 and 4)		(msu. 4)	
Common Stock 02/25/2					010			A		30,000	(1)	A	\$	0	45,138	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)	Conversion or Exercise (Month/Day/Year) if any (Month/Day/Year) Security		Code (li	ransaction of Deriva Securi Acquir (A) or Disposof (D) (Instr. and 5)		vative rities rired r osed)	6. Date Exercisable and Expiration Date (Month/Day/Year) Date Expiration Exercisable and Expiration Date			Amount of Securities Underlying Derivative Security (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owners Form: Direct (or Indir (I) (Instr	Beneficial Ownership ect (Instr. 4)			

Explanation of Responses:

1. Subject to accelerated vesting in certain circumstances, 25% of the Performance Units are subject to vest on the 12-month anniversary of the Vesting Commencement Date and 25% of the Performance Units are subject to vest on each of the next 3 yearly anniversaries of the Vesting Commencement Date, provided that the Grantee continues to be a Service Provider from the Grant Date through each applicable vesting date.

<u>Saria Tseng</u> <u>02/25/2010</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.