FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL							
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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

1. Name and Address of Reporting Person* Tseng Saria (Last) (First) (Middle) 6409 GUADALUPE MINES ROAD						2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR] 3. Date of Earliest Transaction (Month/Day/Year) 05/03/2011 4. If Amendment, Date of Original Filed (Month/Day/Year)								Check	all app Direct Office below	olicable) tor er (give title v) VP & Gene		Owner r (specify v)
(Street) SAN JOS (City)	SAN JOSE CA 95120					The second secon									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/Ye					n 2. (ear) if	2A. Deemed Execution Date,			3. Transac Code (li 8)	tion	4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)			or 5. Ai		ount of ities icially d	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
									Code	v	Amount	(A) or (D)	Price		Repo Trans		(mau. 4)	(111341. 4)
Common Stock 05/03/20					11	1			S		326(1)	D	\$16.:	5702	83,756		D	
Common Stock 05/03				05/03/20	11				S		904(1)	D \$16		5703	82,852		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	Sion Date Execution Date, if any (Month/Day/Year) if a		5. Nu of Deriv Secu (A) o Dispo of (D) (Instr and 5	rative rities ired r osed) . 3, 4	Expira (Monti	ition E	Year) Securities Underlying Derivative Security (Inst 3 and 4) Amou or Numb of		t of ies ying ive y (Instr.) Amount or Number			9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership			

Explanation of Responses:

1. Shares sold to pay tax obligations resulting from the vesting of restricted stock units.

05/03/2011 Saria Tseng Date

** Signature of Reporting Person

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.