## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL OMB Number 3235-0287 Estimated average burden hours per response: 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

1. Name and Address of Reporting Person*     Tseng Saria     (Last)   (First)   (Middle)						2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR] 3. Date of Earliest Transaction (Month/Day/Year)									eck all ap Direo	plicable) ctor er (give title		Owner (specify
79 GREAT OAKS BLVD					08/09/2012									VP & General Counsel				
(Street) SAN JOS (City)	SAN JOSE CA 95119			9	4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)								Line	e) <mark>X</mark> Form Form	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. Transactio Date (Month/Day/Y					/ear) E	Execution			3. Transac Code (Ii 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)				I Secu	ficially	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
								Code	v	Amount	(A) ( (D)	Pr Pr	ice	Repo Trans		(	(	
Common Stock 08/09/201					12	2		<b>S</b> <sup>(1)</sup>		1,181	D	5	620.40	5 9	95,465	D		
Common Stock 08/10/201					12	2			<b>S</b> <sup>(1)</sup>		702	D	\$2	\$20.7343		94,763	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 Date Execution Date, or Exercise (Month/Day/Year) if any		4. Transad Code (I 8)				6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) Amoun or Numbe		str.	3. Price of Derivative Security Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		

Date

Exercisable Date

(D)

Expiration

Explanation of Responses:

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

## By: Meera Rao For: Saria

of Shares

Title

Tseng

08/10/2012

\*\* 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.

Code

V (A)

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.