## 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 <sup>*</sup> Tseng Saria					MOI	2. Issuer Name and Ticker or Trading Symbol <u>MONOLITHIC POWER SYSTEMS INC</u> [MPWR]									heck al	nship of Repor applicable) Director	U	10% 0	Owner
(Last) (First) (Middle) 6409 GUADALUPE MINES ROAD					3. Date of Earliest Transaction (Month/Day/Year) 02/03/2012										Officer (give title below) VP & General		below	(specify )	
(Street) SAN JOSE CA 95120 (City) (State) (Zip)				4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									ne) X I	ividual 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) Date (Month/Day)					/Year)	Execution Date,						ties Acquired (A) d Of (D) (Instr. 3, 4			S B O	Amount of ecurities eneficially wned bllowing	Fo (D In	Ownership orm: Direct ) or direct (I) nstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
									Code	v	Amount	(A (D	) or )	Price	R	eported ransaction(s) nstr. 3 and 4)	ted action(s)		(1130.4)
Common Stock 02/03/20					012	12			<b>S</b> <sup>(1)</sup>		370		D	<b>\$16</b> .	.78	76,500		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)	Execu if any	xecution Date, any ( any ( Aonth/Day/Year)		ransaction Code (Instr. ) Code V		mber rative rities ired r osed ) . 3, 4 5) (D)	6. Date E Expiratic (Month/I Date Exercisa	bay/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4) Amoun or Numbe of Title Shares		ount	8. Pric of Deriva Securi (Instr.	derivative sive Securities by Beneficial	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)

Explanation of Responses:

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

Saria Tseng

\*\* 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.

02/03/2012 Person Date