SEC Form 3

FORM 3

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

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INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

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	2. Date of Even Requiring State (Month/Day/Yea	ment	3. Issuer Name and Ticker or Trading Symbol <u>MONOLITHIC POWER SYSTEMS INC</u> [MPWR]					
(Last) (First) (Middle)	02/09/2010		4. Relationship of Reporting Person(s) to Issuer (Check all applicable)			5. If Amendment, Date of Original Filed (Month/Day/Year)		
6409 GUADALUPE MINES ROAD			Director X Officer (give title below)	10% Own Other (spe below)	ecify App	6. Individual or Joint/Group Filing (Check Applicable Line)		
(Street) SAN JOSE CA 95120			VP and General Counsel			X Person Person Form filed by More than One Reporting Person		
(City) (State) (Zip)								
	Table I - Nor	n-Derivati	ve Securities Beneficiall	y Owned				
1. Title of Security (Instr. 4)			Amount of Securities eneficially Owned (Instr. 4)	1		4. Nature of Indirect Beneficial Ownership (Instr. 5)		
Common Stock			15,138(1)	D				
(•			Securities Beneficially nts, options, convertible		s)			
1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		d 3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or	Form:	6. Nature of Indirect Beneficial Ownership (Instr. 5)	
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Exercise Price of Derivative Security	Direct (D) or Indirect (I) (Instr. 5)		
Incentive Stock Option (right to buy)	10/15/2005 ⁽²⁾	10/15/2014	Common Stock	6,747	8	D		
Non Qualified Stock Option (right to buy)	10/15/2005 ⁽²⁾	10/15/2014	Common Stock	49,001	8	D		
Non Qualified Stock Option (right to buy)	07/27/2009 ⁽³⁾	07/27/2014	Common Stock	37,000	16	D		
Non Qualified Stock Option (right to buy)	01/31/2010 ⁽⁴⁾	01/31/2015	Common Stock	10,000	15.64	D		
Non Qualified Stock Option (right to buy)	10/22/2010 ⁽⁵⁾	10/22/2015	Common Stock	20,000	13.01	D		

Explanation of Responses:

1. Includes 3,000 restricted stock units. The restricted stock units vest in three equal installments on July 29, 2010, 2011 and 2012.

2. A total of 150,000 shares were granted on 11/17/04. 50,000 shares vested on 10/15/05, and 1/24th of the shares vested monthly thereafter.

3. A total of 37,000 shares were granted on 7/27/07. Fifty percent (50%) of the shares vested twenty-four (24) months after the grant date, and 1/48th of the shares vest monthly thereafter.

4. A total of 10,000 shares were granted on 1/31/08. Fifty percent (50%) of the shares vested twenty-four (24) months after the grant date, and 1/48th of the shares vest monthly thereafter.

5. A total of 20,000 shares were granted on 10/22/08. Fifty percent (50%) of the shares vest twenty-four (24) months after the grant date, and 1/48th of the shares vest monthly thereafter.

/s/ Saria Tseng 02/10/2010 ** 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 5 (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.