

INSPIREMD, INC.

FORM	8-K	
(Current repo	rt filing)	

Filed 05/22/15 for the Period Ending 05/22/15

Address	321 COLUMBUS AVENUE
	BOSTON, MA 02116
Telephone	(857) 453-6553
CIK	0001433607
Symbol	NSPR
SIC Code	3841 - Surgical and Medical Instruments and Apparatus
Industry	Medical Equipment & Supplies
Sector	Healthcare
Fiscal Year	12/31

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

FORM 8-K

CURRENT REPORT Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): May 22, 2015

InspireMD, Inc.

(Exact name of registrant as specified in its charter)

(Commission File Number)

001-35731

26-2123838 (IRS Employer Identification No.)

Delaware (State or other jurisdiction of incorporation)

> 321 Columbus Avenue Boston, Massachusetts

(Address of principal executive offices)

02116 (Zip Code)

Registrant's telephone number, including area code: (857) 453-6553

(Former name or former address, if changed since last report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

□ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

□ Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

□ Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

□ Pre-commencement communications pursuant to Rule 13e-4 (c) under the Exchange Act (17 CFR 240.13e-4(c))

Item 7.01 Regulation FD Disclosure.

Attached hereto as Exhibit 99.1 is a PowerPoint presentation that Professor Piotr Musialek will present on May 22, 2015, at the EuroPCR 2015 Conference held from May 19 to May 22, 2015, in Paris, France (the "EuroPCR Conference"), with respect to the results of InspireMD, Inc.'s CGuard TM Embolic Prevention System in PARADIGM (<u>P</u>rospective evaluation of <u>A</u> ll-comer pe <u>R</u> cutaneous c <u>A</u> roti <u>D</u> revascularization <u>I</u> n symptomatic and increased-risk asymptomatic carotid artery stenosis, using C <u>G</u> uardTM <u>M</u> esh-covered embolic prevention stent system).

The information furnished in this Item 7.01, including Exhibit 99.1, shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liabilities of that section, nor shall such information be deemed incorporated by reference in any filing under the Securities Act of 1933, as amended, or the Exchange Act, except as shall be expressly set forth by specific reference in such a filing.

Item 8.01 Other Events.

On May 22, 2015, InspireMD, Inc. issued a press release announcing that the results of its CGuard TM Embolic Prevention System in PARADIGM were reported at the EuroPCR Conference.

Description

A copy of the press release is attached as Exhibit 99.2 to this Current Report on Form 8-K and is incorporated by reference herein.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

Exhibit Number

99.1	2015 EuroPCR Presentation
99.2	Press release dated May 22, 2015

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, as amended, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

INSPIREMD, INC.

Date: May 22, 2015

By: /s/ Craig Shore

Name: Craig Shore Title: Chief Financial Officer



<u>P</u>rospective evaluation of <u>A</u>ll-comer pe<u>R</u>cutaneous c<u>A</u>roti<u>D</u> revascularization <u>I</u>n symptomatic and increased-risk asymptomatic carotid artery stenosis using C<u>G</u>uard[™] <u>M</u>icronet-covered embolic prevention stent system:

The PARADIGM Study

P. MUSIALEK¹, A. MAZUREK¹, M. TRYSTULA², A. BORRATYNSKA³, M. URBANCZYK³, A. LESNIAK-SOBELGA¹, P. BANYS³, A. BRZYCHCZY², L. PARTYKA⁴, K. ZMUDKA⁵, P. PODOLEC¹

(1) Dept Cardiac and Vascular Diseases, Jagiellonian University & John Paul II Hospital, (2) Dept Vascular Surgery, John Paul II Hospital; (3) John Paul II Hospital, Krakow; (4) Krakow Cardiovascular Research Institute (KCRI); (5) Dept Interventional Cardiology, Jagiellonian University & John Paul II Hospital, Krakow, POLAND









<u>P</u>rospective evaluation of <u>A</u>ll-comer pe<u>R</u>cutaneous c<u>A</u>roti<u>D</u> revascularization In symptomatic and increased-risk asymptomatic carotid artery stenosis using C<u>G</u>uard[™] <u>M</u>icronet -covered <u>embolic prevention</u> stent system:

The PARADIGM Study

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<u>P</u>rospective evaluation of <u>A</u>ll-comer pe<u>R</u>cutaneous c<u>A</u>roti<u>D</u> revascularization <u>I</u>n symptomatic and increased-risk asymptomatic carotid artery stenosis using C<u>G</u>uard[™] <u>M</u>icronet -covered <u>embolic prevention</u> stent system: <u>The PARADIGM Study</u>

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<u>P</u>rospective evaluation of <u>A</u>ll-comer pe<u>R</u>cutaneous c<u>A</u>roti<u>D</u> revascularization <u>I</u>n symptomatic and increased-risk asymptomatic carotid artery stenosis using C<u>G</u>uard[™] <u>M</u>icronet -covered <u>embolic</u> <u>prevention</u> stent system: **The** <u>PARADIGM</u> Study

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Potential conflicts of interest

Speaker's name: Piotr Musialek

☑ I have the following potential conflicts of interest to report: Consulting / Research Support / Speaker Bureau

> ABBOTT VASCULAR Balton Ltd InspireMD MEDTRONIC

NB. Research in this presentation is not industry-funded



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Does Free Cell Area Influence the Outcome in Carotid Artery Stenting?

M. Bosiers,^{1*} G. de Donato,² K. Deloose,¹ J. Verbist,³ P. Peeters,³ F. Castriota,⁴ A. Cremonesi⁴ and C. Setacci⁴

	Total pop	ulation		Symptoma	tic popula	tion	Asympton	natic popul	ation
	Patients	All events	Post-procedural events	Patients	All events	Post-procedural events	Patients	All events	Post-procedura events
Stent name									
X-act		1.9%	1.9%		2.2%	2.2%		1.7%	1.7%
Nexstent		3.3%	3.3%	10	0.0%	0.0%		4.2%	4.2%
Wallstent		2.3%	1.2%		2.3%	1.2%		2.3%	1.2%
Precise		4.1%	3.1%		6.3%	4.9%		2.0%	1.3%
Protégé		3.0%	3.0%		6.7%	6.7%		1.4%	1.4%
Acculink		4.2%	3.7%	neuro	7.7%	7.1%		1.7%	1.2%
Exponent		11.8%	5.9%	meare	9.1%	9.1%		13.0%	4.3%
Total	3179	2.83%	1.9% J et	vents	3.6%	2.73%	1862	2.25%	1.3%

are POST-procedural



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Eur J Vasc Endovasc Surg Vol 33, February 2007







FREE CELL AREA drives CAS neurologic adverse events (and majority are those during stent healing !) Total population Free cell area Symptomatic population All All Post-Postevents procedural events procedural events events <2.5 vs [2.5, 5] 1.00 1.00 1.00 1.00 <2.5 vs [5, 7.5] 0.054 0.072 0.048 0.024 <2.5 vs >7.5 0.27 $2.8 \ 10^{-6}$ 0.006 0.0006 The world-leading Course in Interventional Medicine Eur J Vasc Endovasc Surg Vol 33, February 2007 PCR



current best-in-class
Hybrid stentcurrent best-in-class
Closed-cell stentImage: Construction of the stend stend



EuroPCR 2015 19^{du}-22nd May, 2015 - Paris

<u>Post-procedural</u> Embolization with conventional carotid stents DW-MRI post CAS

Mean total lesion area





CGuard [™] embolic prevention system



CGuard[™]– Carotid Embolic Prevention System

	System specification	S
Stent type	Nitino	I-self expanding
Micronet aperture size	1	L50-180 μm
Guidewire		0.014"
Sizes - Diameter - Length		6-10mm 20-60mm
E Mark – March 2014		





Objective

- to evaluate feasibility and outcome of <u>routine</u> anti-embolic stent system use
 - in <u>unselected</u>, <u>consecutive</u> patients
 - referred for carotid revascularization
 - ('all-comer' study)







PARADIGM



Methods:

- academic cardio-vascular centre
- investigator-initiated study
- not industry-funded
- all-comer patient inclusion (six month referral sample)
- all referrals tracked
- routine consultation and management pathways
- qualitative and quantitative lesion & stent evaluation
- investigator-independent neurological and angiographic evaluation, and external study data verification









- EPD use mandatory; EPD selection according to the 'Tailored CAS' algorithm^{*}
- Liberal postdilatation accepted in order to maximize potential for 'endovascular full reconstruction' (minimizing residual stenosis)
 - NB. 1. DWI evidence of effective MicroNet prevention against cerebral embolization (CARENET/PROFI)
 - Residual stenosis after CAS as independent predictor of in-stent restenosis

Van Laanen J et al. *J Cardiovasc Surg*Cosottini M et al. *Stroke Res*Musialek P et al. *J Endovasc Ther*Wasser K et al. *J Neurol*



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* Pieniazek P, Musialek P et al. J Endovasc Ther 2008;15:249-62. Cremonesi A et al. EuroInervention 2009;5:589-98. Pieniazek P, Musialek P et al. J Endovasc Ther 2009;16:744-51.



Filter-protected CAS procedures CARENET vs PROFI: DW-MRI analysis



CGuard [™] embolic prevention system



Filter-protected CAS procedures CARENET vs PROFI: DW-MRI analysis





PARADIGM



Endpoints:

- feasibility of endovascular Tx in unselected referrals using the study device in otherwise routine practice
- device success (able to deliver + implant + <30% DS)
- procedure success (device success w/o clinical compl.) (external neurologist, external non-invasive cardiologist)
- 24-48h • clinical efficacy: MACNE (death/stroke/MI) 30 days 12 months in-stent velocities (Duplex) PCR 🥑 🤇

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• <u>ASYMPTOMATIC</u> patients treated interventionally only if at <u>stroke risk</u>

• established lesion-level increased-risk crieria used:

- thrombus-containing
- tight, near-occlusive
- documented progressive
- irregular and/or ulcerated
- contralteral ICA occlusion/stroke
- asymptomatic ipsilateral brain infarct



The world-leading Course in Interventional Medicine AbuRahma A et al. Ann Surg. 2003;238:551-562. Ballotta E et al. J Vasc Surg 2007;45:516-522. Kakkos SK et al. (ACSRS) J Vasc Surg. 2009;49:902-909. Lovett JK et al. Circulation 2004;110:2190-97 Nicolaides AN et al. J Vasc Surg 2010;52:1486-96. Taussky P et al. Neurosurg Focus 2011;31:6-17.





Methods (cont'd)



PARADIGM: investigator – independent

- external study data verification
- external angiographic analysis
- external statistical analysis







Study Flow Chart (1)



97 carotid stenosis patient referrals* (external >> internal)



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Study Flow Chart (1)



97 carotid stenosis patient referrals*



Neuro-Vascular Team

Neurologist Interventional Angiologist Vascular Surgeon Cardiologist

Gupta K et al. A multispecialty consensus-based approach to carotid revascularization. *J Invasive Cardiol*. 2014;26:123-7. Tomai F et al. Carotid artery revascularization selected by consensus of a cardiovascular team. *EuroIntervention* 2014;9:1294-300. Kole MK et al. A multidisciplinary carotid revascularization board. *Surg Neurol Int*. 2012;3:117.



The world-leading Course *Dept. of Cardiac & Vascular Dieases, John Paul II Hospital, in Interventional Medicine Krakow, Poland; 10.2014–03.2015







Study Flow Chart (2)



73 Patients for carotid revascularization

(1%)



CAS in n=67 **Patients** (bilateral in 3) CAS + CEA in n=1 Patient

(LICA-CEA and RICA-CAS) hybrid management



 $n=1 \text{ eGRF } 14 \Rightarrow$ no contrast n=1 extreme access tortuousity n=1 severe aortic valve disease +calcific LICA (AVR+CEA) n=1 floating thrombus in CCA n=1 ICA diameter <2.0 mm + contralat . occlusion



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Study Flow Chart (2)



73 Patients for carotid revascularization (92%) (1%) (7%) CAS CAS + CEA CEA in n=67 in n=5 in n=1 Patients Patient Patients (bilateral in 3) (LICA-CEA and RICA-CAS) n=1 eGRF 14 => no contrast hybrid management n=1 extreme access tortuousity n=1 severe aortic valve disease +calcific LICA(AVR+CEA) 71 ICAs n=1 floating thrombus in CCA n=1 ICA diameter <2.0 mm treated endovascularly + contralat . occlusion in 68 patients The world-leading Course PCR in Interventional Medicine





Clinical characteristics of study patients (n=68)

age, mean±SD (min-max)	69 ±7 (55-83)
male, % (n)	66% (45)
symptomatic, % (n) symptomatic ≤ 14 days, % (n) acutely symptomatic (emergent CAS) , % (n)	53% (36) 28% (19) 9% (6)
index lesion (CAS), % (n) RICA LICA RICA+LICA	52% (35) 44% (30) 4% (3)
h/of MI, % (n)	27% (18)
CABG or PCI in the past, % (n)	38% (26)
PCI as bridge to CAS, % (n)	16% (11)
AFib (h/o or chronic), % (n)	6% (4)
diabetes, % (n)	35% (24)
h/o neck or chest radiotherapy, % (n)	4% (3)



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PCR PARADIGM: Results (1)



 Percutaneous treatment 100% using the intended MicroNet-covered embolic prevention stent system CGuard (ie, no other stents used during the study period)

 Device success 	100%
 Procedure success 	100%
Transient Dopamine infusion	19% (n=14)
 Debris in EPD 	18% (n=13)
Access site complications	0% (n=0)
 Vascular plug closure 	45% (n=32)
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PCR PARADIGM: Results (2)



Index lesion	qualita	tive charact	eristics (n=71	L lesions)
	All (n=71)	Symptomatic (n=37)	Asymptomatic (n=34)	р
thrombus, % (n)	15% (11)	24% (9)	6% (2)	0.025
near occl./string, % (n)	21% (15)	30% (11)	12% (4)	0.084
proggressive*, % (n)	27% (19)	11% (4)	44% (15)	0.003
ulcerated, % (n)	41% (29)	46% (17)	35% (12)	0.470
irregular, % (n)	72% (51)	65% (24)	79% (27)	0.197
contralateral occl. , % (n)	17% (12)	22% (8)	35% (12)	0.291
highly calcific, % (n)	23% (16)	14% (5)	35% (12)	0.050
asymptomatic ipsilat. brain embolization/infarct	N/A	N/A	32% (11)	N/A

* veriified imaging

Quantified



4.99±0.36mm (from 4.27 to 6.02mm) 19.9±5.8mm (from 8.19 to 30.25mm)



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euro PCR PARADIGM: Results (3)



	All (n=71 lesions)	Symptomatic n=37	Asymptomatic n=34	р
Before CAS				
PSV, m/s	3.8±1.3	3.7±1.1	3.8±1.5	0.862
EDV, m/s	1.3 ± 0.7	1.4 ± 0.6	1.3±0.8	0.687
Diameter stenosis % (QA)	82 ± 9	79±9	84 ± 9	0.021
CAS				
EPD type Proximal* Distal**	35% (25) 65% (46)	44% (16) 56% (21)	26% (9) 74% (25)	0.092
post-dilat balloon* peak pressure, mmHg	18.4±3.4	17.5±3.6	19.2 ± 2.9	0.037
After CAS				1222
Stent length (QA)® Nominal 30mm (min-max) Nominal 40mm (min-max)	29.66±0.30 (28.73-30.07) 39.73±0.34 (38.88-40.22)	29.66±0.28 (29.02-30.07) 39.69±0.41 (38.88-40.22)	29.65 ±0.32 (28.73-30.02) 39.77±0.28 (39.14-40.04)	NA
Residual diam. stenosis	7 ± 4%	5±4%	7±5%	0.257
in-stent PSV, m/s	0.70±0.28	0.66±0.29	0.74±0.27	0.266
in-stent EDV, m/s	0.17±0.07	0.17±0.07	0.18±0.07	0.457



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* Emboshield (n=7); FilterWire (n=14); Spider (n=25)
 ** Gore FlowReversal (n=4) or flow reversal with MoMa (n=21); (NB. mean flow reversal time was 6min 48s, from 5min 18s to 11min 2s)
 # Ø 4.5mm (n=5); Ø 5.0mm (n=36); Ø 5.5mm (n=29); Ø 6.0mm (n=1);
 § 30mm in 51 lesions; 40mm in 18 lesions (2 other lesions required two stents each)





- Death/stroke/MI @ 48h
 0%
- Death/stroke/MI @ 30d 0%











- Death/stroke/MI @ 48h
 0%
- Death/stroke/MI @ 30d 0%









- >90% all-comer carotid artery stenosis patients, including >50% symptomatic presentations, can be treated endovascularly using the MicroNet-covered embolic prevention stent system CGuard
- endovascular revascularization with routine use of the MicroNet--covered embolic prevention stent system CGuard in an unselected patient polulation is extremely safe
- use of the MicroNet-covered embolic prevention stent system enables 'endovascular reconstruction' of the diseased carotid artery across a wide lesion spectrum (from extremely tight and thrombotic to highly calcific) in absence of periprocedual clinical complications
- procedural safety of the MicroNet-covered embolic prevention system extends throughtout the stent healing period



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CGuard 5 month follow-up



RCCA & RICA



LICA CGuard @ 5 months







CGuard: Endovascular Solution For All-comers



Endovascular Reconstruction of the Carotid Bifurcation

CAS (and CEA) are -- and will remain-- emboli-generating procedures



CGuard embolic prevention stent system

- Compatible with <u>ALL</u> EPD types
- Deliverable in hard-access anatomies V
- Optimal visibility V
- Reliable, predictable, and extremely precise \mathbf{V}
- No indication of foreshortening
- Radial strength sufficient for v. hard lesions $\sqrt{}$

Piotr Musialek @ ePCR 2015

placement

CGuard embolic prevention stent system

 Full respect of the carotid bifurcation anatomy -> 'endovascular anatomic reconstruction'

 Optimal performance across all lesion subsets (including high calcium/thrombus/string)

'The most OPEN of open-cell stent designs' and 'The most CLOSED of the closed-cell designs'

Piotr Musialek @ ePCR 2015

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InspireMD's CGuard TM Highlighted at Clinical Presentation at EuroPCR 2015 Conference

PARADIGM Evaluation Reports CGuard TM Favorable Outcomes in All-Comer Carotid Disease Population

BOSTON, MA – May 22, 2015 – <u>InspireMD, Inc.</u> (NYSE MKT: NSPR) ("InspireMD" or the "Company"), a leader in stent embolic protection systems ("EPS"), today announced that its CGuard TM Embolic Prevention System reported positive results in PARADIGM, lead by principle investigator Prof. Piotr Musialek, at the <u>EuroPCR</u> conference on May 22, 2015 in Paris, France.

PARADIGM, an investigator-initiated <u>P</u> rospective evaluation of <u>A</u> ll-comer pe <u>R</u> cutaneous c <u>A</u> roti <u>D</u> revascularization <u>I</u> n symptomatic and increasedrisk asymptomatic carotid artery stenosis, using C <u>G</u> uardTM <u>M</u> esh-covered embolic prevention stent system, indicated that the CG uardTM system is appropriate for use in an all-comer carotid revascularization population and is associated with an extremely favorable angiographic and clinical outcome.

Dr. Musialek, commented, "Our experience with CGuard TM continues to be very positive. Evidence shows the device's applicability for use in an allcomer population with no major adverse cardiac or neurological events (MACNE) during the procedure and at 30 days. We were also pleased with CGuard's anti-embolic performance as well as its flexibility. Impressively, we had a procedure success rate of 100%."

During his clinical presentation from the 71 CGuard procedures in unselected all-comer patients in the PARADIGM evaluation, Prof. Musialek summarized:

- Stent system success and procedure success rate were 100%.
- Periprocedural complications were 0%, and remained at 0% at 30 days.
- No MACNE occurred periprocedurally or at 30 days, by operator-independent neurologist and non-invasive cardiologist evaluation.

Prof. Musialek stated, "The system is unique in that it combines the most closed of the closed cell designs with the most open of the open cell designs," and concludes, "Our experience indicates routine use of CGuard, which we believe presents a significant technological and clinical advancement, may form a new paradigm in carotid revascularization."

Alan Milinazzo, CEO of InspireMD, commented, "We are pleased to see the very positive results from PARADIGM. Together with the other independent clinical studies presented at EuroPCR, it has confirmed confidence in our CGuard TM Embolic Prevention system." "The customer response to the CGuard has been extremely positive during the conference and today's positive data will further support our expanding commercial activities."

Each year, more than 120 companies from the cardiovascular industry, including device and equipment manufacturers, attend EuroPCR, the leading cardiovascular event in Europe. This event allows attendees to discover new products and R&D projects, as well as interact with practitioners and industry partners to drive continued development and innovation in the cardiovascular field.

For more information about InspireMD and its offerings, visit www.inspiremd.com.



About InspireMD, Inc.

InspireMD seeks to utilize its proprietary MGuardTM with MicroNet TM technology to make its products the industry standard for embolic protection and to provide a superior solution to the key clinical issues of current stenting in patients with a high risk of distal embolization, no reflow and major adverse cardiac events.

InspireMD intends to pursue applications of this MicroNet technology in coronary, carotid (CGuard TM), neurovascular, and peripheral artery procedures. InspireMD's common stock is quoted on the NYSE MKT under the ticker symbol NSPR.

Forward-looking Statements:

This press release contains "forward-looking statements." Such statements may be preceded by the words "intends," "may," "will," "plans," "expects," "anticipates," "projects," "predicts," "estimates," "aims," "believes," "hopes," "potential" or similar words. Forward-looking statements are not guarantees of future performance, are based on certain assumptions and are subject to various known and unknown risks and uncertainties, many of which are beyond the Company's control, and cannot be predicted or quantified and consequently, actual results may differ materially from those expressed or implied by such forward-looking statements. Such risks and uncertainties include, without limitation, risks and uncertainties associated with (i) market acceptance of our existing and new products, (ii) negative clinical trial results or lengthy product delays in key markets, (iii) an inability to secure regulatory approvals for the sale of our products, (iv) intense competition in the medical device industry from much larger, multinational companies, (v) product liability claims, (vi) product malfunctions, (vii) our limited manufacturing capabilities and reliance on subcontractors for assistance, (viii) insufficient or inadequate reimbursement by governmental and other third party payers for our products, (ix) our efforts to successfully obtain and maintain intellectual property protection covering our products, which may not be successful, (x) legislative or regulatory reform of the healthcare system in both the U.S. and foreign jurisdictions, (xi) our reliance on single suppliers for certain product components, (xii) the fact that we will need to raise additional capital to meet our business requirements in the future and that such capital raising may be costly, dilutive or difficult to obtain and (xiii) the fact that we conduct business in multiple foreign jurisdictions, exposing us to foreign currency exchange rate fluctuations, logistical and communications challenges, burdens and costs of compliance with foreign laws and political and economic instability in each jurisdiction. More detailed information about the Company and the risk factors that may affect the realization of forward looking statements is set forth in the Company's filings with the Securities and Exchange Commission (SEC), including the Company's Annual Report on Form 10-K and its Quarterly Reports on Form 10-Q. Investors and security holders are urged to read these documents free of charge on the SEC's web site at http://www.sec.gov. The Company assumes no obligation to publicly update or revise its forward-looking statements as a result of new information, future events or otherwise.

Investor Contacts:

InspireMD, Inc. Craig Shore Chief Financial Officer Phone: 1-888-776-6804 FREE Email: craigs@inspiremd.com

PCG Advisory

Vivian Cervantes Investor Relations Phone: (212) 554-5482