

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM 10-Q

QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the quarterly period ended June 30, 2013.

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from _____ to _____

Commission File Number: 001-16133

DELCATH SYSTEMS, INC.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of incorporation or organization)

06-1245881
(I.R.S. Employer Identification No.)

566 Queensbury Avenue, Queensbury, New York 12804
(Address of principal executive offices)

(518) 743-8892
(Registrant's telephone number, including area code)

Indicate by check mark whether the registrant: (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days.

Yes No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files).

Yes No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer

Accelerated filer

Non-accelerated filer (Do not check if a smaller reporting company)

Smaller reporting company

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act).

Yes No

As of August 5, 2013, 101,556,426 shares of the Company's common stock, \$0.01 par value, were outstanding.

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DELCATH SYSTEMS, INC.

PART I:
FINANCIAL INFORMATION

Item 1. Condensed Consolidated Financial Statements (Unaudited)

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DEL CATH SYSTEMS, INC.
Condensed Consolidated Balance Sheets
(Unaudited)
(in thousands, except share data)

	<u>June 30,</u> <u>2013</u>	<u>December 31,</u> <u>2012</u>
Assets:		
Current assets		
Cash and cash equivalents	\$ 32,326	\$ 23,726
Accounts receivables	59	144
Inventories, net	925	1,105
Prepaid expenses and other current assets	1,589	1,457
Total current assets	<u>34,899</u>	<u>26,432</u>
Property, plant and equipment, net	3,507	4,042
Total assets	<u>\$ 38,406</u>	<u>\$ 30,474</u>
Liabilities and Stockholders' Equity:		
Current liabilities		
Accounts payable	\$ 705	\$ 939
Accrued expenses	4,270	5,790
Warrant liability	366	3,427
Total current liabilities	<u>5,341</u>	<u>10,156</u>
Deferred revenue	9	309
Commitments and contingencies	-	-
Stockholders' equity		
Preferred stock, \$.01 par value; 10,000,000 shares authorized; no shares issued and outstanding at June 30, 2013 and December 31, 2012	-	-
Common stock, \$.01 par value; 170,000,000 shares authorized; 96,989,051 and 76,849,033 shares issued and 96,960,951 and 76,820,933 outstanding at June 30, 2013 and December 31, 2012, respectively	970	768
Additional paid-in capital	248,867	218,063
Accumulated deficit	(217,136)	(198,808)
Treasury stock, at cost; 28,100 shares at June 30, 2013 and December 31, 2012	(51)	(51)
Accumulated other comprehensive income	406	37
Total stockholders' equity	<u>33,056</u>	<u>20,009</u>
Total liabilities and stockholders' equity	<u>\$ 38,406</u>	<u>\$ 30,474</u>

See accompanying notes to condensed consolidated financial statements.

DELCATH SYSTEMS, INC.
Condensed Consolidated Statements of Operations and Comprehensive Loss
(Unaudited)
(in thousands, except share and per share data)

	Three months ended June 30,		Six months ended June 30,	
	2013	2012	2013	2012
Product revenue	\$ —	\$ 106	\$ 81	\$ 106
Other revenues	—	—	300	—
Total revenue	—	106	381	106
Costs of goods sold	(332)	—	(363)	—
Gross profit (loss)	(332)	106	18	106
Operating expenses				
Selling, general and administrative	\$ 6,263	\$ 7,218	\$ 12,346	\$ 14,643
Research and development	3,992	8,204	8,462	15,335
Total operating expenses	10,255	15,422	20,808	29,978
Operating loss	(10,587)	(15,316)	(20,790)	(29,872)
Change in fair value of warrant liability, net	5,115	917	2,842	579
Interest income	5	4	15	7
Other expense and interest expense	(15)	(117)	(395)	(115)
Net loss	<u>\$ (5,482)</u>	<u>\$ (14,512)</u>	<u>\$ (18,328)</u>	<u>\$ (29,401)</u>
Common share data:				
Basic and diluted loss per share	<u>\$ (0.06)</u>	<u>\$ (0.26)</u>	<u>\$ (0.20)</u>	<u>\$ (0.57)</u>
Weighted average number of basic and diluted common shares outstanding	96,380,562	54,847,807	90,934,084	51,582,458
Other comprehensive income (loss):				
Foreign currency translation adjustments	\$ 6	\$ —	\$ 369	\$ —
Comprehensive loss	<u>\$ (5,476)</u>	<u>\$ (14,512)</u>	<u>\$ (17,959)</u>	<u>\$ (29,401)</u>

See accompanying notes to condensed consolidated financial statements.

DEL CATH SYSTEMS, INC.
Condensed Consolidated Statements of Cash Flows
(Unaudited)
(in thousands)

	Six months ended June 30,	
	2013	2012
Cash flows from operating activities:		
Net loss	\$ (18,328)	\$ (29,401)
Adjustments to reconcile net loss to net cash used in operating activities:		
Stock option compensation expense	571	1,404
Restricted stock compensation expense	241	481
Depreciation expense	604	699
Warrant liability fair value adjustment	(2,842)	(579)
Loss on disposal of equipment	5	—
Non-cash interest income	1	3
Changes in assets and liabilities:		
Increase in prepaid expenses and other current assets	(132)	(197)
Decrease (increase) in accounts receivable	84	(102)
Decrease (increase) in inventories	174	(516)
Increase (decrease) in accounts payable and accrued expenses	(1,576)	1,014
Decrease in deferred revenue	(300)	—
Net cash used in operating activities	<u>(21,498)</u>	<u>(27,194)</u>
Cash flows from investing activities:		
Purchase of property, plant, and equipment	(79)	(1,252)
Purchase of short-term investments and marketable equity securities	—	—
Proceeds from maturities of short-term investments	—	4,980
Net cash (used in) provided by investing activities	<u>(79)</u>	<u>3,728</u>
Cash flows from financing activities:		
Net proceeds from sale of stock and exercise of stock options and warrants	29,975	26,975
Net cash provided by financing activities	<u>29,975</u>	<u>26,975</u>
Foreign currency effects on cash	202	—
(Decrease) increase in cash and cash equivalents	8,600	3,509
Cash and cash equivalents at beginning of period	23,726	25,777
Cash and cash equivalents at end of period	<u>\$ 32,326</u>	<u>\$ 29,286</u>
Supplemental non-cash activities:		
Fair value of warrants issued	\$ —	\$ 4,055
Fair value of warrants exercised	<u>\$ 219</u>	<u>\$ —</u>

See accompanying notes to condensed consolidated financial statements.

DEL CATH SYSTEMS, INC.
Notes to Condensed Consolidated Financial Statements
for the Three and Six Months Ended June 30, 2013 and 2012

(1) Description of Business

Delcath is a specialty pharmaceutical and medical device company focused on oncology. The Company's proprietary technology is designed to administer high-dose chemotherapy to diseased organs or regions of the body, while controlling the systemic exposure of those agents. The Company believes that its proprietary technology is a platform that may have broader applicability, including the use of other drugs to treat the liver, as well as for the treatment of cancers in other organs and regions of the body.

The Company is currently focused on three main goals:

- Pursuit of new clinical trials for its CHEMOSAT/Melblez Kit system with melphalan to support a regulatory application for labeling for hepatocellular carcinoma (HCC or primary liver cancer).
- European commercialization of the Delcath Hepatic CHEMOSAT[®] Delivery System (CHEMOSAT Delivery System for Melphalan). In 2013 the Company is focused on expanding clinical usage of the CHEMOSAT system and obtaining compelling reimbursement for CHEMOSAT procedures in certain markets in Europe.
- U.S. Food & Drug Administration (FDA) approval of its New Drug Application (NDA) for Melblez[™] Kit (Melblez (melphalan) for Injection for use with the Delcath Hepatic Delivery System) (Melblez Kit). The Company is currently waiting for the FDA to complete its review of the Company's NDA. The Company continues to believe that approval for an indication in ocular melanoma that is metastatic to the liver in the United States would meet a high unmet need.

Outside of the United States, the Company's proprietary system to deliver and filter melphalan hydrochloride is marketed as a device under the trade name Delcath Hepatic CHEMOSAT[®] Delivery System (CHEMOSAT Delivery System for Melphalan). In April 2012, the Company obtained authorization to affix a CE Mark for the Generation Two CHEMOSAT Delivery System for Melphalan. The right to affix the CE Mark allows the Company to market and sell the CHEMOSAT System for Melphalan in Europe.

In the United States, the Company's proprietary system for the administration of melphalan hydrochloride to the liver is considered a combination drug and device product, and is regulated as a drug by the United States Food and Drug Administration (FDA). The Company submitted its New Drug Application (NDA) to the FDA on August 15, 2012, with the proposed trade name Melblez Kit[™] (Melblez (melphalan) for Injection for use with the Delcath Hepatic Delivery System) (Melblez Kit), and is seeking approval for commercial sale of the Melblez Kit in the treatment of patients with unresectable metastatic ocular melanoma in the liver. The NDA was accepted for filing by the FDA on October 15, 2012. On April 3, 2013 the FDA extended its Prescription Drug User Fee Act (PDUFA) goal date to September 13, 2013. On May 2, 2013, the FDA's Oncologic Drugs Advisory Committee (ODAC) voted 16 to 0 with no abstentions that benefits of treatment with the Melblez Kit (that contains the Clark or Generation 1 filter) do not outweigh the risks associated with the procedure. The Company intends to meet with the FDA to discuss and clarify regulatory requirements for approval of the Melblez Kit containing the Generation 2 filter for unresectable metastatic ocular melanoma in the liver or other indications. The FDA is not bound by the recommendation of its advisory committee, but will consider the committee's guidance as it evaluates the Melblez Kit NDA. Delcath will continue to work closely with the FDA throughout its ongoing evaluation of the Melblez Kit. There can be no assurance that the FDA will ultimately approve the Company's NDA.

The Company has incurred losses since inception. The Company anticipates incurring additional losses until such time, if ever, that it can generate significant sales. Management believes that its capital resources are adequate to fund operations for the next twelve months, but anticipates that additional working capital may be required to continue operations. To the extent additional capital is not available when needed, the Company may be forced to abandon some or all of its development and commercialization efforts, which would have a material adverse effect on the prospects of the business. Operations of the Company are subject to certain risks and uncertainties, including, among others, uncertainty of product development; uncertainty regarding regulatory approval; technological uncertainty; uncertainty regarding patents and proprietary rights; comprehensive government regulations; limited commercial manufacturing, marketing or sales experience; and dependence on key personnel.

(2) Basis of Condensed Consolidated Financial Statement Presentation

The accompanying condensed consolidated financial statements are unaudited and were prepared by the Company in accordance with generally accepted accounting principles in the United States of America (GAAP) and with the instructions to Form 10-Q and Article 10 of Regulation S-X. Certain information and footnote disclosures normally included in the Company's annual financial statements have been condensed or omitted. The preparation of condensed consolidated financial statements in conformity with GAAP requires management to make assumptions and estimates that impact the amounts reported in the Company's condensed consolidated financial statements. The condensed consolidated financial statements include the accounts of all entities controlled by Delcath. All significant inter-company accounts and transactions are eliminated. The unaudited interim condensed consolidated financial statements, in the opinion of management, reflect all adjustments (consisting of normal recurring accruals) necessary for a fair statement of the Company's results of operations, financial position and cash flows for the interim periods ended June 30, 2013 and 2012.

DELCATH SYSTEMS, INC.
Notes to Condensed Consolidated Financial Statements
for the Three and Six Months Ended June 30, 2013 and 2012

The results of operations and cash flows for the interim periods are not necessarily indicative of the results of operations to be expected for the fiscal year. These unaudited interim condensed consolidated financial statements should be read in conjunction with the audited financial statements and notes thereto for the year ended December 31, 2012, which are contained in the Company's Annual Report on Form 10-K for the year ended December 31, 2012 as filed with the Securities and Exchange Commission (the "SEC") on March 13, 2013.

(3) Summary of Significant Accounting Policies

Use of Estimates

The Company bases its estimates and judgments on historical experience and on various other assumptions that it believes are reasonable under the circumstances. The amounts of assets and liabilities reported in the Company's condensed consolidated balance sheets and the amount of expenses reported for each of its periods presented are affected by estimates and assumptions, which are used for, but not limited to, the accounting for derivative instrument liabilities, stock-based compensation, valuation of inventory, income taxes and operating expense accruals. Such assumptions and estimates are subject to change in the future as additional information becomes available or as circumstances are modified. Actual results could differ from these estimates.

Cash Equivalents and Concentrations of Credit Risk

The Company considers investments with original maturities of three months or less at date of acquisition to be cash equivalents. The Company has deposits that exceed amounts insured by the Federal Deposit Insurance Corporation (FDIC), however, the Company does not consider this a significant concentration of credit risk based on the strength of the financial institutions.

Accounts Receivable

Accounts receivable, principally trade, are generally due within 30 days and are stated at amounts due from customers. As the Company's commercial activities expand, collections and payments from customers will be monitored and a provision for estimated credit losses will be created based upon historical experience and specific customer collection issues that may be identified. At June 30, 2013 there were no accounts receivable determined to be uncollectable.

Inventories

Inventories are valued at the lower of cost or market value using the first-in, first-out method. The reported net value of inventory includes finished saleable products, work-in-process, and raw materials that will be sold or used in future periods. The Company reserves for expired, obsolete, and slow-moving inventory.

Prior to obtaining authorization to affix the CE Mark to its Generation Two Delcath Hepatic CHEMOSAT® Delivery System in April 2012, the Company expensed all of its inventory costs as research and development. Inventory as of June 30, 2013 includes finished goods and components relating to Generation Two of the Delcath Hepatic CHEMOSAT® Delivery System that have been purchased since April 2012. Therefore, as is common for companies transitioning from the development stage to commercial, to the extent that materials expensed prior to April 2012 are used in manufacturing finished goods for sale, the Company's cost of goods sold will be adjusted accordingly.

Property, Plant and Equipment

Property, plant and equipment are recorded at cost, less accumulated depreciation. The Company provides for depreciation on a straight line basis over the estimated useful lives of the assets which range from three to seven years. Leasehold improvements will be amortized over the shorter of the lease term or the estimated useful life of the related assets when they are placed into service. Maintenance and repairs are charged to operations as incurred. Expenditures which substantially increase the useful lives of the related assets are capitalized.

Derivative Instrument Liability

The Company accounts for derivative instruments in accordance with Accounting Standards Codification (ASC) 815, which establishes accounting and reporting standards for derivative instruments and hedging activities, including certain derivative instruments embedded in other financial instruments or contracts and requires recognition of all derivatives on the balance sheet at fair value, regardless of the hedging relationship designation. Accounting for changes in the fair value of the derivative instruments depends on whether the derivatives qualify as hedge relationships and the types of relationships designated are based on the exposures hedged. At June 30, 2013 and 2012, the Company did not have any derivative instruments that were designated as hedges.

DELCATH SYSTEMS, INC.
Notes to Condensed Consolidated Financial Statements
for the Three and Six Months Ended June 30, 2013 and 2012

Fair Value Measurements

The Company applies ASC 820, which defines fair value, establishes a framework for measuring fair value, and expands disclosures about fair value measurements. ASC 820 applies to reported balances that are required or permitted to be measured at fair value under existing accounting pronouncements; accordingly, the standard does not require any new fair value measurements of reported balances.

ASC 820 emphasizes that fair value is a market-based measurement, not an entity-specific measurement. Therefore, a fair value measurement should be determined based on the assumptions that market participants would use in pricing the asset or liability. As a basis for considering market participant assumptions in fair value measurements, ASC 820 establishes a fair value hierarchy that distinguishes between market participant assumptions based on market data obtained from sources independent of the reporting entity (observable inputs that are classified within Levels 1 and 2 of the hierarchy) and the reporting entity's own assumptions about market participant assumptions (unobservable inputs classified within Level 3 of the hierarchy).

- Level 1 inputs utilize quoted prices (unadjusted) in active markets for identical assets or liabilities that the Company has the ability to access.
- Level 2 inputs are inputs other than quoted prices included in Level 1 that are observable for the asset or liability, either directly or indirectly. Level 2 inputs may include quoted prices for similar assets and liabilities in active markets, as well as inputs that are observable for the asset or liability (other than quoted prices), such as interest rates, foreign exchange rates, and yield curves that are observable at commonly quoted intervals.
- Level 3 inputs are unobservable inputs for the asset or liability, which is typically based on an entity's own assumptions, as there is little, if any, related market activity.

In instances where the determination of the fair value measurement is based on inputs from different levels of the fair value hierarchy, the level in the fair value hierarchy within which the entire fair value measurement falls is based on the lowest level input that is significant to the fair value measurement in its entirety. The Company's assessment of the significance of a particular input to the fair value measurement in its entirety requires judgment, and considers factors specific to the asset or liability.

Deferred Revenue

Deferred revenue on the accompanying condensed consolidated balance sheets includes payment received for product sales to a distributor. When obligations or contingencies remain after the products are shipped, such as training and certifying the treatment centers, revenue is deferred until the obligations or contingencies are satisfied. The Company will recognize the revenue related to product sales when its obligations under the agreement have been satisfied. The Company recognized deferred revenue related to a research and distribution agreement upon the completion of certain requirements under the agreement.

Product Revenue Recognition

Revenue from product sales is generally recognized when all of the following criteria have been met: persuasive evidence of an arrangement exists; delivery has occurred; product price is fixed or determinable; and collection of the resulting receivable is reasonably assured. The Company recognizes product revenues derived from either direct sales to end hospital customers or indirect sales to distributors when the end hospital customers have completed trainings and are certified to perform patient treatments using our product.

Other Revenue

Other revenue is related to the recognition of previously deferred revenue upon the completion of certain requirements under the Research and Distribution Agreement with Chi-Fu Trading Co., Ltd.

Selling, General and Administrative

Selling, general and administrative costs include personnel costs and related expenses for the Company's sales, marketing, general management and administrative staff, recruitment, costs related to the Company's commercialization efforts in Europe, professional service fees, professional license, business development and certain general legal activities.

Research and Development

Research and development costs include the costs of materials used for R&D and clinical trials, personnel costs associated with device and pharmaceutical R&D, clinical affairs, medical affairs, medical science liaisons, and regulatory affairs, costs of outside services and applicable indirect costs incurred in the development of the Company's proprietary drug delivery system. All such costs are charged to expense when incurred.

DELCATH SYSTEMS, INC.
Notes to Condensed Consolidated Financial Statements
for the Three and Six Months Ended June 30, 2013 and 2012

Stock Based Compensation

The Company accounts for its share-based compensation in accordance with the provisions of ASC 718, which establishes accounting for equity instruments exchanged for employee services and ASC 505-50, which establishes accounting for equity-based payments to non-employees. Under the provisions of ASC 718, share-based compensation is measured at the grant date, based upon the fair value of the award, and is recognized as an expense over the option holders' requisite service period (generally the vesting period of the equity grant). The Company is required to record compensation cost for all share-based payments granted to employees based upon the grant date fair value, estimated in accordance with the provisions of ASC 718. Under the provisions of ASC 505-50, measurement of compensation cost related to common shares issued to non-employees for services is based on the value of the services provided or the fair value of the shares issued. The measurement of non-employee stock-based compensation is subject to periodic adjustment as the underlying equity instrument vests. The Company expensed its share-based compensation for share-based payments granted under the accelerated method, which treats each vesting tranche as if it were an individual grant.

The Company periodically grants stock options for a fixed number of shares of common stock to its employees, directors and non-employee contractors, with an exercise price greater than or equal to the fair market value of Delcath's common stock at the date of the grant. The Company estimates the fair value of stock options using an option pricing model. Key inputs used to estimate the fair value of stock options include the exercise price of the award, the expected post-vesting option life, the expected volatility of Delcath's stock over the option's expected term, the risk-free interest rate over the option's expected term, and Delcath's expected annual dividend yield. Estimates of fair value are not intended to predict actual future events or the value ultimately realized by persons who receive equity awards.

Recently Adopted Accounting Pronouncements

In February 2013, the Financial Accounting Standards Board (FASB) issued Accounting Standards Update (ASU) 2013-02 which requires additional disclosures regarding the reporting of reclassifications out of accumulated other comprehensive income. ASU 2013-02 requires an entity to present, either on the face of the statement where net income is presented or in the notes, significant amounts reclassified out of accumulated other comprehensive income by the respective line items of net income but only if the amount reclassified is required under GAAP to be reclassified to net income in its entirety in the same reporting period. This guidance is effective for reporting periods beginning after December 15, 2012. The Company adopted this guidance effective January 1, 2013. The Company's adoption of this standard did not have a material impact on its consolidated financial statements.

In March 2013, the FASB issued ASU 2013-05, which permits an entity to release cumulative translation adjustments into net income when a reporting entity (parent) ceases to have a controlling financial interest in a subsidiary or group of assets that is a business within a foreign entity. Accordingly, the cumulative translation adjustment should be released into net income only if the sale or transfer results in the complete or substantially complete liquidation of the foreign entity in which the subsidiary or group of assets had resided, or, if a controlling financial interest is no longer held. The revised standard is effective for fiscal years beginning after December 15, 2013; however, early adoption is permitted. The Company does not expect adoption of this ASU to materially impact its consolidated financial statements.

(4) Inventories

Inventories consist of:

<i>(in thousands)</i>	<u>June 30, 2013</u>	<u>December 31, 2012</u>
Raw materials	\$ 232	\$ 197
Work-in-process	758	405
Finished goods	267	503
Total inventory, gross	1,257	1,105
Inventory reserves	(332)	-
Total inventory, net	<u>\$ 925</u>	<u>\$ 1,105</u>

Due to adjustments in the anticipated use of inventory, the Company recorded a \$0.3 million reserve for expired, obsolete and slow-moving inventory during the quarter. This cost is included in "Cost of goods sold" in the Condensed Consolidated Statements of Operations.

DELCATH SYSTEMS, INC.
Notes to Condensed Consolidated Financial Statements
for the Three and Six Months Ended June 30, 2013 and 2012

(5) Property, Plant, and Equipment

Property, plant, and equipment consists of:

<i>(in thousands)</i>	June 30, 2013	December 31, 2012
Leaseholds	\$ 1,729	\$ 1,716
Furniture	952	952
Equipment	1,503	1,473
Computers	2,129	2,141
Buildings and land	603	603
	<u>6,916</u>	<u>6,885</u>
Accumulated depreciation	(3,409)	(2,843)
Total	<u>\$ 3,507</u>	<u>\$ 4,042</u>

Depreciation expense for the three and six months ended June 30, 2013 is \$0.3 million and \$0.6 million, respectively, as compared to \$0.4 million and \$0.7 million for the same period in 2012.

(6) Restructuring Charges

During the six months ended June 30, 2013, the Company implemented restructurings of its workforce to better focus the Company's organizational structure, increase efficiency and concentrate financial resources on its clinical development program and European commercialization activity. This resulted in a reduction in the Company's workforce by 27 employees. As a result of termination benefits given to the impacted employees, the restructuring activities resulted in a total cost of approximately \$1.5 million which is reflected on the Condensed Consolidated Statements of Operations in both "Selling, general and administrative expenses" and "Research and development expenses", as appropriate. The \$1.1 million in accrued severance expenses at June 30, 2013 is included in "Accrued Expenses" on the Condensed Consolidated Balance Sheets.

<i>(in thousands)</i>	June 30, 2013
Severance and restructuring expenses	\$ 1,470
Restructuring expenses paid by June 30, 2013	(376)
Total restructuring expenses accrued as of June 30, 2013	<u>\$ 1,094</u>

Of the \$1.1 million of severance payments remaining in accruals, approximately \$0.9 million will be paid out through June 2014.

(7) Assets and Liabilities Measured at Fair Value**Derivative Warrant Liability**

The Company allocated part of the proceeds of a private placement and a public offering of the Company's common stock to warrants issued in connection with such transactions. The Company determined that these warrants should be classified as liabilities rather than equity. The valuation of the warrants is determined using an option pricing model. This model uses inputs such as the underlying price of the common stock on the date of valuation, the exercise price of the warrant, volatility, risk free interest rate and expected life of the instrument. The Company has determined that the warrant derivative liability should be classified within Level 3 of the fair-value hierarchy by evaluating each input for the model against the fair-value hierarchy criteria and using the lowest level of input as the basis for the fair-value classification as called for in ASC 820-10-35. There are six inputs: the closing price of the Company's common stock on the day of evaluation; the exercise price of the warrants; the remaining term of the warrants; the volatility of Delcath's stock over that term; annual rate of dividends; and the riskless rate of return. Of those inputs, the exercise price of the warrants and the remaining term are readily observable in the warrant agreements. The annual rate of dividends is based on our historical practice of not granting dividends. The closing price of the Company's common stock would fall under Level 1 of the fair-value hierarchy as it is a quoted price in an active market (ASC 820-10-35-40). The riskless rate of return is a Level 2 input as defined in ASC 820-10-35-48, while the historical volatility is a Level 3 input as defined in ASC 820-10-55-22. Since the lowest level input is a Level 3, the Company determined the warrant derivative liability is most appropriately classified within Level 3 of the fair value hierarchy.

DELCATH SYSTEMS, INC.
Notes to Condensed Consolidated Financial Statements
for the Three and Six Months Ended June 30, 2013 and 2012

In June 2009, the Company completed the sale of 0.9 million shares of its common stock and the issuance of warrants to purchase approximately 1.0 million common shares (the “2009 Warrants”) pursuant to a subscription agreement with a single investor. The Company received gross proceeds of \$3.0 million, with net cash proceeds after related expenses from this transaction of approximately \$2.7 million. Of those proceeds, the Company allocated an estimated fair value of \$2.2 million to the 2009 Warrants. As required by the 2009 Warrant agreement, the exercise price of the warrants was adjusted following the Company’s December 2012 sale of common stock. At June 30, 2013, the 2009 Warrants were exercisable at \$1.20 per share with approximately 1.0 million warrants outstanding. The 2009 Warrants have a five-year term. The shares and warrants were issued pursuant to an effective registration statement on Form S-3 (333-143280 and 333-159857).

In May 2012, the Company completed the sale of 15.3 million shares of its common stock and the issuance of warrants to purchase 4.6 million common shares (the “2012 Warrants”) pursuant to an underwriting agreement. The Company received proceeds of \$21.5 million, with net cash proceeds after related expenses from this transaction of approximately \$21.1 million. Of those proceeds, the Company allocated an estimated fair value of \$3.4 million to the 2012 Warrants. As required by the 2012 Warrant agreement, the exercise price of the warrants was adjusted following the Company’s December 2012 sale of common stock. At June 30, 2013, the 2012 Warrants were exercisable at \$1.20 per share with approximately 4.4 million warrants outstanding. The 2012 Warrants have a three-year term. The shares and warrants were issued pursuant to an effective registration statement on Form S-3 (333-178819).

The fair value of the Warrants at June 30, 2013 totaled \$0.4 million and was determined by using an option pricing model assuming the following:

	2012 Warrants	2009 Warrants
Expected volatility	91.75%	95.60%
Risk-free interest rates	0.36%	0.15%
Expected life (in years)	2.00	1.00

For the three and six months ended June 30, 2013, the Company recorded pre-tax derivative instrument income of \$5.1 million and \$2.8 million, respectively. Management expects that the warrants will either be exercised or expire worthless.

Money Market Funds

The table below presents the Company’s assets and liabilities measured at fair value on a recurring basis as of June 30, 2013, aggregated by the level in the fair value hierarchy within which those measurements fall:

Assets and Liabilities Measured at Fair Value on a Recurring Basis at June 30, 2013
(in thousands)

	Level 1	Level 2	Level 3	Balance at June 30, 2013
Assets				
Money market funds	\$ 1,956	\$ —	\$ —	\$ 1,956
Liabilities				
Warrant liability	\$ —	\$ —	\$ 366	\$ 366

Fair Value Measurements Using Significant Unobservable Inputs (Level 3)
(in thousands)

	Warrant Liability
Beginning balance as of December 31, 2012	\$ 3,427
Total change in the liability included in earnings	(2,842)
Fair value of warrants exercised	(219)
Ending balance as of June 30, 2013	\$ 366

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(8) Stock Options Plans

The Company established the 2004 Stock Incentive Plan and the 2009 Stock Incentive Plan (collectively, the “Plans”) under which 3,000,000 and 6,500,000 shares, respectively, were reserved for the issuance of stock options, stock appreciation rights, restricted stock, stock grants and other equity awards. A stock option grant allows the holder of the option to purchase a share of the Company’s common stock in the future at a stated price. The Plans are administered by the Compensation and Stock Option Committee of the Board of Directors which determines the individuals to whom awards shall be granted as well as the type, terms and conditions of each award, the option price and the duration of each award.

Options granted under the Plans vest as determined by the Company’s Compensation and Stock Option Committee and expire over varying terms, but not more than ten years from the date of grant. Stock option activity for the six months ended June 30, 2013 is as follows:

	Stock Option Activity under the Plans			
	Stock Options	Exercise Price per Share	Weighted Average Exercise Price	Weighted Average Remaining Life (Years)
Outstanding at December 31, 2012	4,788,887	\$ 1.23-\$15.54	\$ 4.79	6.88
Granted	923,220	\$ 0.46-\$2.13	2.08	
Forfeited	(517,441)	\$ 1.31-\$8.50	3.45	
Expired	(20,000)	\$ 1.87-\$1.87	1.87	
Outstanding at June 30, 2013	5,174,666	\$ 0.46-\$15.54	\$ 4.45	6.75

For the three and six months ended June 30, 2013, the Company recognized compensation expense of approximately \$0.1 million and \$0.6 million, respectively, relating to stock options granted to employees. For the three and six months ended June 30, 2012, the Company recognized compensation expense of approximately \$0.7 million and \$1.4 million, respectively, relating to stock options granted to employees.

The Company accounts for stock-based compensation for employees in accordance with the provisions of ASC 718. An option pricing model is used to determine the fair value of stock options awarded to employees on the date of grant. The Company has expensed its stock-based compensation for share-based payments granted under the ratable method, which treats each vesting tranche as if it were an individual grant.

The Company accounts for stock-based compensation expense for non-employees in accordance with the provisions of ASC 505, which requires using the fair-value method. Under this method, the award is re-measured at each reporting date until the award has vested. The Company estimates the fair value using an option pricing model. The Company has expensed its share-based compensation for non-employees under the ratable method.

The assumptions used in the option pricing model to determine the fair value of stock options awarded to employees are as follows:

	Six Months Ended June 30,	
	2013	2012
Dividend yield	None	None
Expected volatility	86.16%-93.68%	77.37% - 80.3%
Weighted average volatility	86.21%	78.91%
Risk-free interest rates	0.99%-1.36%	0.78% - 1.49%
Expected life (in years)	6.8	6.0

No dividend yield was assumed because the Company has never paid a cash dividend on its common stock and does not expect to pay dividends in the foreseeable future. Volatilities were developed using the Company’s historical volatility. The risk-free interest rate was developed using the U.S. Treasury yield for maturities equal to the expected life of the stock options on the grant date. The expected option term for grants made prior to June 30, 2012 was developed based on the mid-point between the vesting date and the expiration date of each respective grant as permitted under ASC 718. This method of determining the expected holding period was utilized because the Company did not have sufficient historical experience from which to estimate the period. The expected option term for grants made since July 1, 2012 was calculated based on actual historical results.

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Notes to Condensed Consolidated Financial Statements
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Restricted stock activity for the six months ended June 30, 2013 is as follows:

	Restricted Stock Activity under the Plans	
	Restricted Stock	Weighted Average Grant Date Fair Value
Non-vested at December 31, 2012	501,468	\$ 3.26
Granted	259,750	0.43
Vested	(307,488)	2.54
Forfeited	(56,985)	4.18
Non-vested at June 30, 2013	<u>396,745</u>	<u>\$ 1.82</u>

For the three and six months ended June 30, 2013, the Company recognized compensation expense of \$0.1 million and \$0.2 million, respectively, relating to restricted stock granted to employees. For the three and six months ended June 30, 2012, the Company recognized compensation expense of approximately \$0.2 million and \$0.5 million, respectively, relating to restricted stock granted to employees.

(9) Common Stock

In December 2012, the Company entered into a Common Stock Purchase Agreement (Purchase Agreement) with Terrapin Opportunity, L.P. (Terrapin) for a committed equity financing facility (CEFF) program. The Purchase Agreement provides that Terrapin is committed to purchase up to \$35,000,000 of our common stock over the 24-month term of the Purchase Agreement. During the six months ended June 30, 2013 the Company sold approximately 5.6 million shares of its common stock through the program. The Company received proceeds of approximately \$9.0 million, with net cash proceeds after related expenses from this transaction of approximately \$8.9 million. The shares were issued pursuant to an effective registration statement on Form S-3 (333-183675). The net proceeds will be used for general corporate purposes, including, but not limited to, commercialization of our products, obtaining regulatory approvals, funding of our clinical trials, capital expenditures and working capital. In addition to the \$9.0 million raised during the six months ended June 30, 2013, the Company previously raised \$2.1 million under the CEFF program. As a result, there was approximately \$23.9 million available under this CEFF program as of June 30, 2013.

During the six months ended June 30, 2013, the Company sold approximately 14.2 million shares of its common stock under a sales agreement with Cowen and Company, LLC through an “at the market” equity offering program for proceeds of approximately \$20.9 million, with net cash proceeds after related expenses of approximately \$20.8 million. The net proceeds will be used for general corporate purposes, including, but not limited to, commercialization of our products, obtaining regulatory approvals, funding of our clinical trials, capital expenditures and working capital. There are no shares of common stock of the Company remaining for sale under the program or registered pursuant to registration statement 333-165677.

On March 13, 2013, the Company entered into a new sales agreement (the “March 2013 Sales Agreement”) with Cowen and Company, LLC to sell shares of the Company’s common stock, par value \$.01 per share, having aggregate sales proceeds of \$50,000,000, from time to time, through an “at the market” equity offering program under which Cowen and Company, LLC will act as sales agent. The net proceeds will be used for general corporate purposes, including, but not limited to, commercialization of our products, obtaining regulatory approvals, funding of our clinical trials, capital expenditures and working capital.

During the six months ended June 30, 2013, the Company issued 0.2 million shares of its common stock upon the exercise of 2012 Warrants for proceeds of approximately \$0.2 million.

(10) Net Loss

Basic net loss per common share is calculated by dividing net loss by the weighted-average number of common shares outstanding for the period, without consideration for potentially dilutive securities. For the periods presented, basic and diluted net loss per common share are identical. Potentially dilutive securities from stock options, unvested restricted shares and warrants would be antidilutive as the Company incurred a net loss. The number of shares of common stock potentially issuable at June 30, 2013 and 2012 upon exercise or conversion that were not included in the computation of net loss per share totaled 11,011,304 and 14,297,654 shares, respectively.

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(11) Taxes

As discussed in Note 11 to the Company's audited financial statements contained in the 2012 Annual Report on Form 10-K, the Company has a valuation allowance against the full amount of its net deferred tax assets. The Company currently provides a valuation allowance against deferred tax assets when it is more likely than not that some portion or all of its deferred tax assets will not be realized. The Company has not recognized any unrecognized tax benefits in its balance sheet.

The Company is subject to income tax in the United States, the Republic of Ireland, and certain state jurisdictions. The Company has not been audited by the United States Internal Revenue Service (the "IRS"), international tax authorities, or any states in connection with income taxes. The periods from December 31, 2009 to December 31, 2012 remain open to examination by the IRS and state tax authorities. The periods from December 31, 2011 to December 31, 2012 remain open to examination by the Republic of Ireland. Also note that the federal, state, and international tax authorities can generally reduce a net operating loss (but not create taxable income) for a period outside the statute of limitations in order to determine the correct amount of net operating loss which may be allowed as a deduction against income for a period within the statute of limitations.

(12) Legal Proceedings

The Company is a party to several legal proceedings. Please see Part II, Item 1 in this Quarterly Report on Form 10-Q for more information.

On May 8, 2013, a purported stockholder of the Company filed a putative class action complaint in the United States District Court for the Southern District of New York, captioned Bryan Green, individually and on behalf of all others similar situated v. Delcath Systems, Inc., et al. ("Green"), Case No. 1:13-cv-03116-LGS. On June 14, 2013, a substantially similar complaint was filed in the United States District Court for the Southern District of New York, captioned Joseph Connico, individually and on behalf of all others similarly situated v. Delcath Systems, Inc., et al. ("Connico"), Case No. 1:13-cv-04131-LGS. Both complaints name the Company, Eamonn P. Hobbs, and Krishna Kandarpa, as defendants (the "Defendants"). The plaintiff in the Green action seeks compensatory damages, rescissionary damages, equitable relief, and reasonable attorneys' fees, expert fees and other costs, and the plaintiff in the Connico action seeks damages, as well as reasonable attorneys' fees, expert fees and other costs. At a hearing on August 2, 2013, the Court consolidated the Green and Connico actions under the caption In re Delcath Systems, Inc. Securities Litigation, No. 13-cv-3116, appointed Lead Plaintiff, Delcath Investor Group, and approved Pomerantz Grossman Hufford Dahlstrom & Gross LLP as Lead Plaintiff's choice of counsel. Further, the Court ordered that the consolidated amended complaint in In re Delcath Systems, Inc. Securities Litigation will be due on September 18, 2013, and set a briefing schedule with respect to the anticipated motion to dismiss.

The Company believes that the In re Delcath Systems, Inc. Securities Litigation action lacks merit and intends to defend the case vigorously.

On May 23, 2013, purported stockholders of the Company filed a shareholder derivative lawsuit in the United States District Court for the Southern District of New York, captioned Vincent J. Orlando and Carol Orlando, derivatively on behalf of Delcath Systems, Inc. v. Harold S. Koplewicz, et al. ("Orlando"), Case No. 1:13-cv-03494-LGS. On June 11, 2013, a substantially similar complaint was filed in the United States District Court for the Southern District of New York, captioned Howard Warsett, derivatively on behalf of Delcath Systems, Inc. v. Harold S. Koplewicz, et al. ("Warsett"), Case No. 1:13-cv-04002-LGS. On July 19, 2013, another substantially similar complaint was filed in the United States District Court for the Southern District of New York, captioned Patricia Griesi, derivative on behalf of nominal defendant Delcath Systems, Inc. v. Harold S. Koplewicz, et al. ("Griesi"), Case No. 13 cv 5024. In all three cases, Harold S. Koplewicz, Laura A. Brege, Tasos G. Konidaris, Eamonn P. Hobbs, Douglas G. Watson, Laura A. Philips, Roger G. Stoll, and Gabriel Leung were named as defendants (the "Individual Defendants"), and the Company was named as a nominal defendant. The Orlando, Warsett, and Griesi plaintiffs seek damages as well as reasonable costs and attorneys' fees. The Griesi plaintiffs also seek corporate governance reforms and improvements and restitution.

On June 25, 2013, the Court consolidated the Orlando and Warsett actions with the caption In re Delcath Systems, Inc. Derivative Shareholder Litigation, Lead Case No. 1:13-cv-03494-LGS ("Consolidated Derivative Case"). On August 1, 2013, the Court consolidated the Griesi action under the caption In re Delcath Systems, Inc. Derivative Shareholder Litigation, Lead Case No. 1:13-cv-03494-LGS. At a hearing on August 2, 2013, the Court entered an order approving Federman & Sherwood as lead counsel. The Court stayed the Consolidated Derivative Case, pending resolution of an anticipated motion to dismiss in In re Delcath Systems, Inc. Securities Litigation, No. 13-cv-3116.

The defendants in the Consolidated Derivative Case deny any wrongdoing, believe the claims are baseless, and will defend accordingly.

On June 7, 2013, a purported stockholder of the Company filed a shareholder derivative lawsuit in the Supreme Court of the State of New York County of New York, captioned Howard D. Weinstein, derivatively on behalf of Delcath Systems, Inc. v. Harold S. Koplewicz, et al. ("Weinstein"), Case No. 652030/2013. The action named Harold S. Koplewicz, Laura A. Brege, Tasos G. Konidaris, Eamonn P. Hobbs, Douglas G. Watson, Laura A. Philips, Roger G. Stoll, and Gabriel Leung as individual defendants (the "Individual Defendants"), as well as the Company, as a nominal defendant. The plaintiff seeks damages, as well as reasonable costs and attorneys' fees.

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On July 16, 2013, the parties in the Weinstein matter stipulated to stay the proceeding until the federal district court rules on the anticipated motion to dismiss in *In re Delcath Systems, Inc. Securities Litigation*, No. 13-cv-3116.

The defendants in the Weinstein matter deny any wrongdoing, believe the claims are baseless, and will defend accordingly.

(13) Subsequent Events

During the third quarter through August 5, 2013, the Company sold approximately 4.6 million shares of its common stock under the March 2013 Sales Agreement through an “at the market” equity offering program for net proceeds of approximately \$1.8 million. The shares were issued pursuant to an effective registration statement on Form S-3 (333-187230). The net proceeds will be used for general corporate purposes, including, but not limited to, funding of the Company’s clinical trials, commercialization of our products, obtaining regulatory approvals, capital expenditures and working capital. As of August 5, 2013, the Company has approximately \$48.2 million remaining under the program. As a result of the sales made under the program, the exercise price of all warrants outstanding has been reduced to \$0.37.

The Company completed an evaluation of the impact of any subsequent events through the date financial statements were issued and determined there were no other subsequent events requiring disclosure in or adjustment to these financial statements.

Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations

The following discussion and analysis of the Company's financial condition and results of operations should be read in conjunction with the unaudited interim condensed consolidated financial statements and notes thereto contained in Item 1 of Part I of this Quarterly Report on Form 10-Q and the audited financial statements and notes thereto as of and for the year ended December 31, 2012 included in the Company's 2012 Annual Report on Form 10-K to provide an understanding of its results of operations, financial condition and cash flows.

Disclosure Regarding Forward-Looking Statements

This Quarterly Report on Form 10-Q for the period ended June 30, 2013 contains certain "forward-looking statements" within the meaning of the "safe harbor" provisions of the Private Securities Litigation Reform Act of 1995 with respect to our business, financial condition, liquidity and results of operations. Words such as "anticipates," "expects," "intends," "plans," "predicts," "believes," "seeks," "estimates," "could," "would," "will," "may," "can," "continue," "potential," "should," and the negative of these terms or other comparable terminology often identify forward-looking statements. Statements in this Quarterly Report on Form 10-Q for the period ending June 30, 2013 that are not historical facts are hereby identified as "forward-looking statements" for the purpose of the safe harbor provided by Section 21E of the Exchange Act and Section 27A of the Securities Act. These forward-looking statements are not guarantees of future performance and are subject to risks and uncertainties that could cause actual results to differ materially from the results contemplated by the forward-looking statements, including the risks discussed in this Quarterly Report on Form 10-Q for the period ended June 30, 2013 in Part II, Item 1A under "Risk Factors" as well as in Part I, Item 3 "Quantitative and Qualitative Disclosures About Market Risk," our Annual Report on Form 10-K for the period ended December 31, 2012 in Item 1A under "Risk Factors" as well as in Item 7A "Quantitative and Qualitative Disclosures About Market Risk," and the risks detailed from time to time in our future SEC reports. These forward-looking statements include, but are not limited to, statements about:

- o our estimates regarding sufficiency of our cash resources, anticipated capital requirements and our need for additional financing;
- o the progress and results of our research and development programs;
- o the commencement of future clinical trials and the results and timing of those clinical trials;
- o submission and timing of applications for regulatory approval and approval thereof;
- o our ability to successfully source certain components of the system and enter into supplier contracts;
- o our ability to successfully manufacture the CHEMOSAT/Melblez Kit system;
- o our ability to successfully commercialize the CHEMOSAT/Melblez Kit system and successfully obtain reimbursement;
- o our ability to successfully negotiate and enter into agreements with distribution, strategic and corporate partners; and
- o our estimates of potential market opportunities and our ability to successfully realize these opportunities.

Many of the important factors that will determine these results are beyond our ability to control or predict. You are cautioned not to put undue reliance on any forward-looking statements, which speak only as of the date of this Quarterly Report on Form 10-Q. Except as otherwise required by law, we do not assume any obligation to publicly update or release any revisions to these forward-looking statements to reflect events or circumstances after the date of this Quarterly Report on Form 10-Q or to reflect the occurrence of unanticipated events.

Overview

The following section should be read in conjunction with Part I, Item 1: Condensed Consolidated Financial Statements of this report and Part I, Item 1: Business; and Part II, Item 8: Financial Statements and Supplementary Data of the Company's 2012 Annual Report on Form 10-K.

Delcath is a specialty pharmaceutical and medical device company focused on oncology. The Company's proprietary technology is designed to administer high-dose chemotherapy to diseased organs or regions of the body, while controlling the systemic exposure of those agents. The Company believes that its proprietary technology is a platform that may have broader applicability, including the use of other drugs to treat the liver, as well as for the treatment of cancers in other organs and regions of the body.

The Company is currently focused on three main goals:

- Pursuit of new clinical trials for its CHEMOSAT/Melblez Kit system with melphalan to support a regulatory application for labeling for hepatocellular carcinoma (HCC or primary liver cancer).
- European commercialization of the Delcath Hepatic CHEMOSAT[®] Delivery System (CHEMOSAT Delivery System for Melphalan). In 2013 the Company is focused on expanding clinical usage of the CHEMOSAT system and obtaining compelling reimbursement for CHEMOSAT procedures in certain markets in Europe.
- U.S. Food & Drug Administration (FDA) approval of its New Drug Application (NDA) for Melblez[™] Kit (Melblez (melphalan) for Injection for use with the Delcath Hepatic Delivery System) (Melblez Kit). The Company is currently waiting for the FDA to complete its review of the Company's NDA. The Company continues to believe that approval for an indication in ocular melanoma that is metastatic to the liver in the United States would meet a high unmet need.

About the CHEMOSAT/Melblez Kit System

The CHEMOSAT/Melblez Kit system administers concentrated regional chemotherapy to the liver. This “whole organ” therapy is performed by first isolating the circulatory system of the liver, infusing the liver with chemotherapeutic agent, and filtering the blood prior to returning it to the patient. During the procedure, three catheters are placed percutaneously through standard interventional radiology techniques. The catheters temporarily isolate the liver from the body’s circulatory system, administer a 30-minute infusion of the chemotherapeutic agent melphalan hydrochloride directly to the liver, and collect blood exiting the liver for filtration by proprietary filters. The filters reduce the concentration of chemotherapeutic agent in the blood, thereby minimizing systemic exposure to the drug and related toxic side-effects before the filtered blood is returned to the patient’s circulatory system.

Treatment with the CHEMOSAT/Melblez Kit System

Currently there are few effective treatment options for cancers in the liver. Traditional treatment options include surgery, chemotherapy, radiation therapy, thermal therapy and chemoembolization as well as cryosurgery, percutaneous ethanol injection, implanted infusion pumps, isolated hepatic perfusion and liver transplant. The most advanced application for which the CHEMOSAT/Melblez Kit system was evaluated is for the treatment of metastatic melanoma in the liver. During the Company’s clinical trials, the procedure typically took approximately two to three hours. Patients remained in the intensive care unit overnight for observation after undergoing treatment with the CHEMOSAT/Melblez Kit system. Treatment with CHEMOSAT/Melblez Kit system is a repeatable procedure, and during clinical trials patients received an average of three procedures at approximately four to eight week intervals. A new disposable CHEMOSAT/Melblez Kit system is used for each treatment.

Risks associated with the CHEMOSAT/Melbez Kit Procedure

As with many cancer therapies, treatment with CHEMOSAT/MELBLEZ Kit is associated with toxic side-effects and certain risks, some of which are potentially life-threatening. In clinical trials, the integrated safety population of patients treated with CHEMOSAT/MELBLEZ Kit showed these risks to include: a 4.1% incidence of deaths due to adverse reactions; 4% incidence of stroke; 2% reported incidence of myocardial infarction in the setting of an incomplete cardiac risk assessment; a $\geq 70\%$ incidence of grade 4 bone marrow suppression with a median time of recovery of greater than 1 week; and an 18% incidence of febrile neutropenia, along with the additive risk of hepatic injury, severe hemorrhage, and gastrointestinal perforation. Deaths due to certain adverse reactions did not occur again during the clinical trials following the adoption of related protocol amendments. The trials that comprised this integrated safety population used early versions of the CHEMOSAT/Melblez Kit system, including the Generation One filter, and did not include use of the Generation Two filter. The Company believes that the risks associated with the procedure are manageable.

Through June 30, 2013, the CHEMOSAT/Melblez Kit system has been used on approximately 200 patients through clinical development and early commercial experience in Europe.

Regulatory Status

United States

In the United States, the Delcath Melblez Kit is subject to regulation as a combination product composed of both a drug product and device product. In August 2012, the Company submitted its NDA for the Melblez Kit under Section 505(b)(2) of the FDCA seeking an indication for the percutaneous intra-arterial administration of melphalan for use in the treatment of patients with metastatic melanoma in the liver, and subsequently amended the indication it is seeking to ocular melanoma metastatic to the liver. The Company’s NDA was accepted for filing by the FDA on October 15, 2012.

On March 18, 2013 the Company supplied certain information in response to an FDA request. Subsequently, on April 3, 2013, the FDA extended its PDUFA goal date to September 13, 2013. The information related to clarification regarding the bridging studies that were performed between the filter generations that were used throughout the development program. As the information was requested and supplied within 90 days of the previous PDUFA goal date of June 15, 2013, the agency exercised its option to extend the PDUFA goal date to provide adequate time for completion of its review. The three-month extension to September 13, 2013 is the standard extension cycle granted.

ODAC

On May 2, 2013 the Company announced that the FDA Oncologic Drugs Advisory Committee (ODAC) voted 16 to 0, with no abstentions, that benefits of treatment with Delcath’s Melblez Kit do not outweigh the risks associated with the procedure. A significant portion of FDA’s presentation to the ODAC panel was focused on the FDA’s assessment of procedure related risks.

A brief summary of the issues discussed at the ODAC is as follows:

Procedure-related deaths

Five deaths (4.1%) in the Phase 2 and Phase 3 clinical trials were considered treatment-related and resulted from adverse events. Four of these deaths were in the Phase 3 trial and one in the Phase 2 trial. The treatment-related deaths in the pooled percutaneous hepatic perfusion (PHP) population were a consequence of either the PHP procedure; or the direct local effects of melphalan during the procedure, or both.

- Two deaths due to gastric ulceration/perforation:
 - o A death due to upper GI hemorrhage in the Phase 2 trial was in a male patient with pancreatic neuroendocrine tumor (NET) who had a prior surgical procedure (referred to as a Whipple's procedure) and consequent abnormal architecture of the upper GI tract, its vasculature, and biliary tree. This patient died on Day 74 after melphalan/PHP treatment and an autopsy revealed a ruptured right hepatic artery as the primary cause of death.
 - o Subsequent to this patient's death, a protocol amendment was implemented that excluded patients with prior Whipple's procedure from being treated.
 - o A death due to gastric perforation occurred in a male patient in the Phase 3 trial who crossed over to melphalan/PHP treatment after hepatic progression on best alternative care (BAC). This patient went into cardiopulmonary arrest and died during a laparotomy on Day 18 after his second treatment cycle. An autopsy revealed two gastric ulcers which likely resulted from the infusion of melphalan during a hepatic artery spasm with consequent misperfusion into the GI vasculature.
 - o Subsequent to this patient's death, a protocol amendment addressed the need to embolize collateral circulation and to check for vasospasm prior to the administration of melphalan. If spasm is present, the use of intra-arterial nitroglycerin should be used to alleviate the spasm prior to the administration of melphalan. No further deaths occurred related to gastric ulceration/perforation after the amendment was put into place.
- One death due to hepatic failure:
 - o A death due to hepatic failure occurred in a male patient in the Phase 3 trial during the first cycle of melphalan/PHP treatment. Following melphalan/PHP treatment, this patient experienced fluid overload, myelosuppression, and hepatorenal syndrome. An autopsy revealed that this patient's death was related to underlying disease burden as the tumor burden in his liver was greater than 90%. A protocol amendment was implemented to address this issue. If, on radiographic imaging there is greater than 50% involvement of tumor in the liver, then a laparoscopic biopsy is necessary to ensure adequate hepatic reserve. Since the institution of this amendment, there were no further deaths due to hepatic failure.
- Two deaths were attributable to complications of a reduction in the level of white blood cells, referred to as neutropenia, beyond the first cycle of treatment. This condition makes patients more susceptible to bacterial infection.
 - o One patient died of streptococcal sepsis and another died of neutropenic complications. It is important to note that prophylactic growth factor support, which is used to treat neutropenia, was not protocol specified and rarely used. While myelosuppression is always a risk with chemotherapy, Delcath has recommended following the American Society of Clinical Oncology (ASCO) guidelines for the use of growth factors to mitigate the incidence of complicated neutropenia. In patients who have been treated with the Generation Two system, both commercially in Europe and in the US under the Expanded Access Program and compassionate use, we have not seen complicated neutropenia to date.
- Additional deaths attributed by FDA:
 - o In FDA's presentation at ODAC, FDA disagreed with this adjudication and added three additional deaths, for a total of a 7% percent death rate, in the Phase 2 and Phase 3 programs. Two deaths related to hepatic failure and one death related to myelosuppression, were described. Upon being advised of the FDA's assessment of these deaths, the Company requested that the cases be re-reviewed by the treating principal investigators. After this review, the treating principal investigators continue to be convinced that these patients died of disease progression, and the Company believes that the three additional deaths the FDA attributed to the procedure were unrelated to treatment.

FDA also raised concerns related to hypotension (low blood pressure) during the CHEMOSAT/Melblez Kit procedure. During procedures with general anesthesia, patients will have fluctuations in their blood pressure. With CHEMOSAT/Melblez Kit, there are two very specific time points when this occurs: double balloon catheter inflation and when the filters come online. This is expected and is routinely managed with blood pressure support by the anesthesiologist. While patients have always been monitored continuously during the procedure, the Phase 3 trial protocol only captured blood pressure readings approximately every 15 minutes. Therefore, the Company believes that the mean and median blood pressures captured in the Phase 3 data are not a true reflection of the duration of hypotension during the CHEMOSAT/Melblez Kit procedure. The typical hypotension associated with CHEMOSAT/Melblez Kit is seconds to approximately two minutes, which future clinical protocol designs will address.

Delcath has posted both the FDA and Company ODAC briefing materials to its website at <http://delcath.com/clinical-research/clinical-bibliography>.

The FDA is not bound by the recommendation of its advisory committee, but will consider the committee's guidance as it evaluates the Melblez Kit NDA.

Delcath is continuing to work closely with the FDA throughout its ongoing evaluation of the Melblez Kit. During the review process, if the FDA raises questions or concerns and we are unable to properly address these questions or concerns to the FDA's satisfaction, the FDA may issue a complete response letter, which may require additional clinical or other data or impose other conditions that must be met in order to secure final approval of the NDA. There can be no assurance that the FDA will ultimately approve the Company's NDA.

Europe

In April 2012, the Company obtained authorization to affix a CE Mark for the Generation Two CHEMOSAT Delivery System for Melphalan. In the EEA, the CHEMOSAT Delivery System for Melphalan is regulated as a Class IIb medical device indicated for the intra-arterial administration of chemotherapeutic agent (melphalan hydrochloride) to the liver with additional extracorporeal filtration of the venous blood return. As a Class IIb medical device, the Company must continue to comply with the essential requirements of the EU Medical Devices Directive (Directive 93/42 EC) and is subject to a conformity assessment procedure requiring the intervention of a Notified Body. The conformity assessment procedure for Class IIb medical devices requires the manufacturer to apply for the assessment of its quality system for the design, manufacture and inspection of its medical devices by a Notified Body. The Notified Body will audit the system to determine whether it conforms to the provisions of the Medical Devices Directive. If the Notified Body's assessment is favorable it will issue a Full Quality Assurance Certificate, which enables the manufacturer to draw a Declaration of Conformity and affix the CE Mark to the medical devices covered by the assessment. Thereafter, the Notified Body will carry out periodic audits to ensure that the approved quality system is applied by the manufacturer.

Sales and Marketing

European Economic Area

Outside of the United States, the Company's proprietary system to deliver and filter melphalan hydrochloride is marketed as a device under the trade name Delcath Hepatic CHEMOSAT® Delivery System (CHEMOSAT Delivery System for Melphalan). In April 2012, the Company obtained authorization to affix a CE Mark for the Generation Two CHEMOSAT Delivery System for Melphalan. The right to affix the CE Mark allows the Company to market and sell the CHEMOSAT System for Melphalan in Europe.

The Company began European commercialization in February 2012 when the first CHEMOSAT procedures performed outside of a clinical trial setting were performed at the *European Institute of Oncology* in Milan, Italy. In April 2012, the Company obtained CE Mark for its Generation Two CHEMOSAT System, allowing it to market and sell the CHEMOSAT Delivery System for Melphalan in the European Economic Area (EEA). Since obtaining the right to affix the CE Mark to the Generation Two CHEMOSAT system, all procedures performed in Europe have been done using the Generation Two system.

The Company's current efforts are focused on seven target markets (Germany, United Kingdom, Italy, the Netherlands, Spain, Ireland, and France), with immediate focus on —Germany, United Kingdom, and Italy— which represent a majority of the total potential liver cancer market (primary and metastatic) in EEA countries and where progress in securing compelling reimbursement for CHEMOSAT treatments offers the best near-term opportunities. The Company also continues to support clinical adoption of CHEMOSAT in the Netherlands, Spain and Ireland. Clinical adoption has been slow in France, where compelling reimbursement is difficult to secure. The Company uses a combination of direct and indirect sales channels to market and distribute the CHEMOSAT Delivery System for Melphalan in the EEA. The Company has also retained a contract field-based team of medical science liaisons (MSL) to educate the medical oncology community in the EU.

During the quarter ended June 30, 2013, CHEMOSAT treatments were performed in Germany (University of Heidelberg and University Medical Center – Gottingen), Italy (European Institute of Oncology), the Netherlands (Netherlands Cancer Institute), and France (St. Andre Hospital). University of Heidelberg is one of the most prestigious cancer treatment research hospitals in Germany, as well as an important data collection center for reimbursement purposes. The University of Heidelberg has completed its training in the CHEMOSAT procedure and has been activated as a new CHEMOSAT center. Since launching the CHEMOSAT Delivery System for Melphalan, the Company has trained and activated 10 centers to provide treatment with the CHEMOSAT System:

- Milan, Italy – European Institute of Oncology (IEO)

- Frankfurt, Germany – Johann Wolfgang Goethe-Universität (JWG)
- Villejuif, France – Cancer Institute Gustave Roussy (IGR)
- Bordeaux, France – Hôpital Saint-André (St Andre)
- Galway, Ireland – University Hospital Galway (UHG)
- Southampton, United Kingdom – Southampton University Hospital (SUH)
- Göttingen, Germany - University Medical Center Göttingen (UMG)
- Varese, Italy – Varese University Hospital (VUH)
- Amsterdam, The Netherlands – Netherlands Cancer Institute- Antoni van Leeuwenhoek Hospital (NKI)
- Heidelberg, Germany – University of Heidelberg Hospital (UHH)

The Company expects to activate additional centers in Germany, United Kingdom, the Netherlands and Spain during its third quarter. Physicians in Europe have used CHEMOSAT to treat patients with a variety of cancers in the liver, primarily ocular melanoma liver metastases, as well as HCC, Cholangiocarcinoma, and liver metastases from colorectal cancer (CRC), breast, cutaneous melanoma and other tumor types.

To support commercialization efforts in the EEA, the Company has established its European Headquarters in Galway, Ireland.

European Reimbursement

A critical driver of utilization growth for CHEMOSAT in Europe is the expansion of compelling reimbursement mechanisms for the procedure in each of the markets we are targeting. In Europe, there is no centralized pan-European medical device reimbursement body. Reimbursement is administered on a regional and national basis, and the Company has engaged a third party reimbursement specialist to support efforts in filing for reimbursement coverage. Medical devices are typically reimbursed under diagnosis related groups (DRG) as part of a procedure. Prior to obtaining permanent DRG reimbursement codes, in certain jurisdictions, the Company is actively seeking interim reimbursement from existing mechanisms that include specific interim reimbursement schemes, new technology payment programs as well as existing DRG codes.

Germany

In February 2013, the Company announced that the Institut für das Entgeltsystem im Krankenhaus (InEk), the German federal reimbursement agency, established a reimbursement pathway for the treatment of patients with liver metastases with the CHEMOSAT System for Melphalan. The Value 4 status given to procedures with the CHEMOSAT System for Melphalan, while not mandating reimbursement, allows participating cancer centers to negotiate reimbursement coverage for the CHEMOSAT procedure with all insurers serving their region. Reimbursement pathways will potentially be available for treatment with CHEMOSAT regardless of primary cancer origin. Some of the participating cancer centers in Germany are pursuing reimbursement under the NUB Value 4 scheme, and have begun negotiations with private payers. However, these negotiations are protracted given the pressure from new procedures mandated for reimbursement entering the market. As an interim measure, centers in Germany have used Individual Funding Applications to gain reimbursement. Over the last quarter, 8 out of 10 of these applications were accepted and the treatment with CHEMOSAT was fully reimbursed. It is likely that this mechanism will be the key reimbursement vehicle until CHEMOSAT gains permanent mandated reimbursement. In order to gain this, the German Radiology Society has resubmitted its application for ZE (Zusatzentgelt), which is a permanent reimbursement code until a CHEMOSAT specific DRG code can be created. Also, Delcath will be resubmitting its NUB application in September with a view to gaining NUB 1 status in February 2014, which mandates reimbursement for the hospitals that applied for it. Last year, 47 German hospitals applied for NUB. Crucial to both ZE and NUB will be achieving adequate number of clinical treatments by September to allow InEk to evaluate the cost and benefit level of CHEMOSAT. While NUB 4 has already indicated their positive view on the therapeutic benefit of CHEMOSAT, reimbursement is typically only mandated under NUB or ZE once average costs can be established. The Company anticipates activating up to five new centers in Germany in the third quarter of this year, which will support the effort to get adequate numbers of procedures performed to support these reimbursement applications with data on average costs.

United Kingdom

In April 2013, interim funding for oncological procedures in the United Kingdom moved away from local Primary Care Trusts (PCTs) to a centralized body of cancer care commissioners. Delcath and its partner centers have identified a Healthcare Resource Groups (HRG) code, which allows hospitals to be covered for CHEMOSAT procedure related costs, and are actively seeking interim funding through the cancer commissioning board to fund the cost of the CHEMOSAT kit itself. In parallel, partner centers are applying for Individual Funding Requests to fund the CHEMOSAT kit for their Ocular Melanoma patients. It is important to note that this process is being driven by partner centers and their clinical community. The Company anticipates activating two new centers in the United Kingdom in the third quarter of this year. The Company is also engaged with the HRGs that decide on new HRG codes with a view to gaining a dedicated and permanent reimbursement code. At the same time, the National Institute for Clinical Excellence (NICE) may decide to conduct a review of the CHEMOSAT procedure at any time, the outcome of which would determine the long-term reimbursement status. However, the Company does not anticipate an assessment from NICE until a significant number of CHEMOSAT procedures are conducted regularly in the United Kingdom.

Italy

In Italy, the Company identified an existing DRG code that may be used by hospitals to submit for partial reimbursement of the CHEMOSAT device and related procedure. Additionally, the Company is assisting hospitals in applying for supplemental new technology payments from certain regions. This process has taken longer than anticipated due to the unstable political situation in the country that has delayed decisions for extra payments for new technologies. This applies not only to the CHEMOSAT procedure but to all new technologies at the present time. In the meantime, Delcath in conjunction with the European Institute of Oncology in Milan, is evaluating the potential application for a new dedicated DRG code specific to the CHEMOSAT procedure once the Phase 3 trial data has been published.

The Netherlands

The Netherlands is currently reforming its healthcare system, and in the process has moved to a procedure code driven DRG system, referred to as "DOT" in the Netherlands. The process of obtaining a DOT code specific to the CHEMOSAT Delivery System for Melphalan requires that Delcath publishes its Phase 3 data, which the Company anticipates submitting for publication in the third quarter of 2013. Following publication, the application for reimbursement will be submitted. In the meantime, the Company is in close contact with the Dutch committee which sanctions new oncological treatments (BOM) and we believe that the CHEMOSAT Delivery System for Melphalan will have a positive review. Until that time the Company is pursuing the possibility of conducting a limited amount of cases through extraordinary insurance funding at the National Cancer Institute in Amsterdam and at the University Hospital in Leiden. The first CHEMOSAT procedures performed in the Netherlands were done at the National Cancer Institute (NKI) in Amsterdam in March 2013.

Permanent, compelling reimbursement in remaining EU markets will require additional time to secure. In the interim period, the Company is seeking payment through various avenues, including new technology programs. In France, the Company anticipates activating three additional centers in 2013 in preparation for a multi-center STIC application. STIC is a hybrid of interim funding and clinical study, allowing a new procedure to be assessed over a two-year period on a pre-set number of treatments. A positive outcome would result in the allocation of a DRG code. The Company will also present its Phase 3 trial data, once published, to the French healthcare authorities in order to assess the possibility of gaining a DRG code without going through the STIC process. Phase 3 publication is also a gating item for reimbursement in Ireland.

The Company continues to work with the principal investigators on submission of its Phase 3 and Phase 2 clinical trials for publication. The timing of these submissions will be determined by the principal investigators. The Company believes the manuscripts are near completion and is hopeful they will be submitted for publication in the near term.

Other International Markets

Delcath has received regulatory approvals for the CHEMOSAT System for Melphalan in various other international markets, including Australia, New Zealand, Singapore and Argentina. In Singapore, the Company is submitting an amendment for approval of the Generation Two version of the CHEMOSAT System. The Company has also submitted applications for regulatory approval as a device for the CHEMOSAT System for Melphalan in Taiwan and Hong Kong. The Company is currently evaluating commercial opportunities in these and other markets on a case by case basis, with the intent of focusing available resources on execution of its clinical development plan and European commercialization.

United States

In the United States, the Company awaits the FDA's decision on its NDA submitted on August 15, 2012. The FDA established a PDUFA goal date of September 13, 2013 and may issue its decision at any time prior to this date. The Company is currently waiting for FDA clarification of what additional data, if any, may be required to support approval for the Generation Two Melblez Kit system

Clinical Development Program

The primary focus of the Company's Clinical Development Program (CDP) is to obtain U.S. label indications and support clinical adoption in Europe. The Company is currently waiting for feedback from the FDA on its NDA, and will determine the best path forward for an indication in ocular melanoma liver metastases once FDA requirements, if any, are known.

Hepatocellular Carcinoma

HCC is the 5th most common cancer in the world, and is a challenging cancer to treat with only one approved chemotherapy in the United States, Europe, and certain Asian markets. Given an attractive potential market, the role liver directed therapies may play in primary liver disease, and the positive efficacy signal in the HCC arm of the Company's Phase 2 study, the Company intends to focus its clinical development efforts on securing a labeled indication for CHEMOSAT/Melblez Kit in HCC.

Phase 2 HCC Cohort

In the Company's multi-arm Phase 2 clinical trial, five patients with HCC were treated with the CHEMOSAT/Melblez Kit in the primary hepatic malignancy cohort. Among these patients, one patient received 4 treatments, achieved a partial response lasting 12.22 months, and survived 20.47 months. Three other patients with stable disease received 3-4 treatments, with hepatic progression free survival (hPFS) ranging 3.45 to 8.15 months, and overall survival (OS) ranging 5.26 to 19.88 months. There was no evidence of extrahepatic disease progression. The observed duration of hPFS and OS in this limited number of patients exceeded that generally associated with this patient population, and constitutes a promising signal that warrants further clinical investigation.

HCC Clinical Development Strategy

On the basis of these encouraging results, subject to agreement with the FDA, the Company intends to initiate a new global clinical trial in the U.S., Europe, and Asia in HCC by the end of 2013. The Company will embark in a staged clinical strategy initiating a phase 2 trial followed by an overlapping phase 3 trial if the initial responses are positive. In Asia, the Company's research and development partner in Taiwan, Chi-Fu Trading Co., Ltd, is expected to collaborate in the Company's sponsored trials (Phase 2 and Phase 3) for CHEMOSAT with melphalan for HCC envisioned in its CDP.

EU Clinical Development

In Europe, the Company has initiated a retrospective data collection trial and plans to initiate a Patient Registry, which will prospectively collect data from EU commercial experience, and expects to support other Investigator Initiated Trials (IIT) globally across multiple tumor types as suitable opportunities present. The Company believes IITs will serve to build clinical experience at key cancer centers, and will support efforts to obtain compelling reimbursement in Europe.

Expanded Access Program

In June 2012, the Company amended its Expanded Access Program (EAP) in the United States to include the use of the Generation Two hemofiltration cartridge of the Melblez Kit system. The amendment filed with the FDA permits physicians at experienced U.S. cancer centers to use the Generation Two Melblez Kit system in expanded access and compassionate use cases. Under the EAP's protocol, eligible patients will be able to receive treatment through enrollment at participating cancer centers upon receipt of each center's institutional review board (IRB) approval. As of June 30, 2013, two patients received three treatments under the EAP at the Sky Ridge Medical Center in Lone Tree, Colorado and the Moffitt Cancer Center in Tampa, Florida.

In June 2012, the Company amended its Investigational New Drug (IND) application, which permits the use of the Generation Two CHEMOSAT/Melblez Kit system in the clinical trials planned in its CDP.

Results of Operations for the Three and Six Months Ended June 30, 2013; Comparisons of Results of Operations for the Three and Six Months Ended June 30, 2012

Revenue

The Company recorded approximately \$0.4 million in total revenue during the six months ended June 30, 2013. Of the \$0.4 million in total revenue, \$0.3 million is related to the recognition of previously deferred revenue as a result of satisfying certain requirements of the Company's agreement with Chi-Fu Trading Co. Ltd. The remainder of the revenue is related to product sales. During the same period in 2012, Delcath recorded \$0.1 million in revenue related to product sales.

Cost of Goods Sold

During the six months ended June 30, 2013, the Company recognized cost of goods sold of approximately \$0.4 million. As Delcath continues progress with clinical adoption in Europe and other parts of the world, the Company expects to see a certain amount of volatility in both the average selling price and gross margin for the next several years. This volatility will be related to several factors, including: adjustments to volume forecasts; the expected use of third party distributors, whose purchase prices will be lower than direct to end user customer prices; the gradual increase in cost of goods sold as the Company exhausts raw materials that were purchased and expensed in prior periods and begins to recognize the actual costs of materials, labor and overhead; and an improvement in efficiencies as the Company increases its production of the CHEMOSAT system.

Three months ended June 30, 2013 and June 30, 2012

Selling, General and Administrative Expenses

For the three months ended June 30, 2013, selling, general and administrative expenses decreased to \$6.3 million from \$7.2 million for the three months ended June 30, 2012. The decrease reflects the Company's efforts to increase organizational efficiencies, including a workforce restructuring initiated early in 2013. During the first half of 2012, the Company incurred certain expenses related to the early stages of its European commercial activities, including creating the appropriate subsidiaries, and the hiring of staff for sales and support positions across Europe.

Research and Development Expenses

For the three months ended June 30, 2013, research and development expenses decreased to \$4.0 million from \$8.2 million for the three months ended June 30, 2012. The decrease is primarily due to a significant reduction in expenses related to the Company's NDA submission to the FDA. Additionally, in accordance with a transition from a development stage company to a commercial organization in 2012, purchases of inventory are now capitalized rather than being expensed as research and development materials.

Interest Income

Interest income is from a money market account and interest earned on operating accounts. For the three months ended June 30, 2013, the Company had interest income of \$5,330 as compared to interest income of \$3,955 for the same period in 2012. During the first half of 2013, the Company invested its cash in interest bearing accounts which yielded higher returns than in the same period of 2012.

Other Expense and Interest Expense

Other expense is primarily related to foreign currency exchange gains and losses. Interest expense is related to an ongoing Revolving Line Facility Fee as required by the Loan and Security Agreement signed with Silicon Valley Bank in 2012 and discussed in Note 9 to the Company's audited financial statements contained in the 2012 Annual Report on Form 10-K.

Net Loss

The Company had a net loss for the three months ended June 30, 2013, of \$5.5 million, a decrease of \$9.0 million, or 62%, compared to the net loss from continuing operations for the same period in 2012. This decrease is primarily due to a \$5.2 million decrease in operating expenses and a \$4.2 million change in the fair value of the warrant liability, which is a non-cash expense. As detailed above, the decrease in operating expenses reflects a significant decrease in costs related to the Company's NDA filing and overall operations.

Six months ended June 30, 2013 and June 30, 2012

Selling, General and Administrative Expenses

For the six months ended June 30, 2013, selling, general and administrative expenses decreased to \$12.3 million from \$14.6 million for the six months ended June 30, 2012. The decrease reflects the Company's efforts to increase organizational efficiencies, including a workforce restructuring initiated early in 2013. During the first half of 2012, the Company incurred certain expenses related to the early stages of its European commercialization, including creating the appropriate subsidiaries, and the hiring of staff for sales and support positions across Europe.

Research and Development Expenses

For the six months ended June 30, 2013, research and development expenses decreased to \$8.5 million from \$15.3 million for the six months ended June 30, 2012. The decrease is primarily due to a significant reduction in expenses related to the Company's NDA submission to the FDA. Additionally, in accordance with a transition from a development stage company to a commercial organization in 2012, purchases of inventory are now capitalized rather than being expensed as research and development materials.

Interest Income

Interest income is from a money market account and interest earned on operating accounts. For the six months ended June 30, 2013, the Company had interest income of \$15,366 as compared to interest income of \$7,195 for the same period in 2012. During the first half of 2013, the Company invested its cash in interest bearing accounts which yielded higher returns than in the same period of 2012.

Other Expense and Interest Expense

Other expense is primarily related to foreign currency exchange gains and losses. Interest expense is related to an ongoing Revolving Line Facility Fee as required by the Loan and Security Agreement signed with Silicon Valley Bank in 2012 and discussed in Note 9 to the Company's audited financial statements contained in the 2012 Annual Report on Form 10-K.

Net Loss

The Company had a net loss for the six months ended June 30, 2013, of \$18.3 million, a decrease of \$11.1 million, or 38%, compared to the net loss from continuing operations for the same period in 2012. This decrease is primarily due to a \$9.2 million decrease in operating expenses and a \$2.3 million change in the fair value of the warrant liability, which is a non-cash expense. As detailed above, the decrease in operating expenses reflects a significant decrease in costs related to the Company's NDA filing and overall operations.

Liquidity and Capital Resources

The Company's future results are subject to substantial risks and uncertainties. Delcath has operated at a loss for its entire history and anticipates that losses will continue over the coming years. There can be no assurance that Delcath will ever generate significant revenues or achieve profitability. The Company expects to use cash, cash equivalents and investment proceeds to fund its clinical and operating activities. Delcath's future liquidity and capital requirements will depend on numerous factors, including the progress of clinical trials and research and product development programs, obtaining approvals and complying with regulations; the timing and effectiveness of product commercialization activities, including marketing arrangements; the timing and costs involved in preparing, filing, prosecuting, defending and enforcing intellectual property rights; and the effect of competing technological and market developments.

At June 30, 2013, the Company had cash and cash equivalents totaling \$32.3 million, as compared to cash, cash equivalents and certificates of deposit totaling \$23.7 million and \$29.3 million at December 31, 2012 and June 30, 2012, respectively. During the six months ended June 30, 2013, the Company used \$21.5 million of cash in its operating activities, which compares to \$27.2 million used for operating activities during the comparable six month period in 2012. The decrease of \$5.7 million is primarily driven by a reduction in NDA submission related costs and improved efficiency in organization and operations. The Company believes it has access to sufficient capital to fund operating activities for the next twelve months.

Because Delcath's business does not generate positive cash flow from operating activities, the Company will need to raise additional capital in order to fund its clinical development program or to fully commercialize the product. The Company's ability to raise capital may be limited in the near term due to the decline in its stock price following the decision from the FDA's ODAC panel discussed earlier in this filing. However, the Company continues to believe it will be able to raise additional capital in the event it is in its best interest to do so. The Company anticipates raising such additional capital by either borrowing money, selling shares of Delcath's capital stock, or entering into strategic alliances with appropriate partners. To the extent additional capital is not available when needed, the Company may be forced to abandon some or all of its development and commercialization efforts, which would have a material adverse effect on the prospects of our business. Further, the Company's assumptions relating to its cash requirements may differ materially from its actual requirements because of a number of factors, including significant unforeseen delays in the regulatory approval process, changes in the focus and direction of clinical trials and costs related to commercializing the product.

The Company has funded its operations through a combination of private placements of its securities, public offerings in 2000, 2003, 2009, 2010, 2011 and 2012, registered direct offerings in 2007 and 2009, an "at the market" equity offering program initiated in 2012, and a committed equity financing facility program initiated in 2012. For a detailed discussion of the Company's various sales of securities and the "at the market" equity offering program see Note 9 to the Company's condensed consolidated financial statements contained in this Quarterly Report on Form 10-Q.

During the six months ended June 30, 2013, the Company sold approximately 14.2 million shares of its common stock under a Sales Agreement with Cowen and Company, LLC through an "at the market" equity offering program for proceeds of approximately \$20.9 million, with net cash proceeds after related expenses of approximately \$20.8 million. The net proceeds will be used for general corporate purposes, including, but not limited to, commercialization of our products, obtaining regulatory approvals, funding of our clinical trials, capital expenditures and working capital. There are no shares of common stock of the Company remaining for sale under the program or registered pursuant to registration statement 333-165677. Following successful completion of the "at the market" equity offering program initiated in December 2011, on March 13, 2013 the Company entered into a new Sales Agreement with Cowen and Company, LLC to sell shares of the Company's common stock having aggregate sales proceeds of \$50,000,000, from time to time, through an "at the market" equity offering program. The Securities will be issued pursuant to a shelf registration statement on Form S-3 (333-187230) which was filed with the Securities and Exchange Commission on March 13, 2013.

In December 2011, the Company filed a registration statement on Form S-3 with the SEC, which allowed the Company to offer and sell, from time to time in one or more offerings, up to \$100,000,000 of common stock, preferred stock, warrants, debt securities and stock purchase contracts as it deemed prudent or necessary to raise capital at a later date. The registration statement became effective on February 13, 2012. The Company used this registration statement for its May 2012 public offering detailed in Note 8 to the Company's audited financial statements contained in the 2012 Annual Report on Form 10-K. The Company subsequently filed a new shelf registration statement on Form S-3 (333-183675) with the SEC which became effective on October 9, 2012. This new shelf replaces the shelf registration filed in December 2011 and allows the Company to offer and sell, from time to time in one or more offerings, up to \$100,000,000 of common stock, preferred stock, warrants, debt securities and stock purchase contracts as it deems prudent or necessary to raise capital at a later date. The Company used this registration statement for its Common Stock Purchase Agreement with Terrapin Opportunity, L.P. detailed in Note 8 to the Company's audited financial statements contained in the 2012 Annual Report on Form 10-K. During the six months ended June 30, 2013, the Company sold approximately 5.6 million shares of its common stock under the Common Stock Purchase Agreement for proceeds of \$9.0 million before related expenses. As of June 30, 2013, Delcath had approximately \$88.1 million available under this registration statement, of which approximately \$6.5 million is reserved for the potential issuance of shares upon the exercise of warrants.

The Company intends to use the net proceeds from any future offerings for general corporate purposes, including, but not limited to, obtaining regulatory approvals, commercialization of its products, funding of clinical trials, capital expenditures and working capital.

Application of Critical Accounting Policies

The Company's financial statements have been prepared in accordance with generally accepted accounting principles in the United States of America (GAAP). Certain accounting policies have a significant impact on amounts reported in the financial statements. A summary of those significant accounting policies can be found in Note 3 to the Company's audited financial statements contained in the 2012 Annual Report on Form 10-K. During 2012, Delcath transitioned from a development stage company to a commercialization organization. At this early commercial stage, the Company has limited choices among accounting policies or methods. In many cases, the Company must use an accounting policy or method because it is the only policy or method permitted under GAAP.

Additionally, the Company devotes substantial resources to obtaining regulatory approvals for the CHEMOSAT/Melblez Kit system as well as its research and development activities, the cost of which is required to be charged to expense as incurred. This further limits the Company's choice of accounting policies and methods. Similarly, management believes there are very limited circumstances in which the Company's financial statement estimates are significant or critical.

The Company considers the valuation allowance for the deferred tax assets to be a significant accounting estimate. In applying ASC 740 management estimates future taxable income from operations and tax planning strategies in determining if it is more likely than not that the Company will realize the benefits of its deferred tax assets. Management believes the Company does not have any uncertain tax positions.

The Company has adopted the provisions of ASC 718, which establishes accounting for equity instruments exchanged for employee services. Under the provisions of ASC 718, share-based compensation is measured at the grant date, based upon the fair value of the award, and is recognized as an expense over the option holders' requisite service period (generally the vesting period of the equity grant). The Company expenses its share-based compensation under the ratable method, which treats each vesting tranche as if it were an individual grant.

The Company has adopted the provisions of ASC 505-50, which establishes accounting for equity-based payments to non-employees. Measurement of compensation cost related to common shares issued to non-employees for services is based on the value of the services provided or the fair value of the shares issued. Each transaction is reviewed to determine the more reliably measurable basis for the valuation. The measurement of non-employee stock-based compensation is subject to periodic adjustment as the underlying equity instrument vests. Non-employee stock-based compensation charges are amortized over the vesting period or period of performance of the services.

The Company has adopted the provisions of ASC 820, which defines fair value, establishes a framework for measuring fair value, and expands disclosures about fair value measurements.

ASC 820 emphasizes that fair value is a market-based measurement, not an entity-specific measurement. Therefore, a fair value measurement should be determined based on the assumptions that market participants would use in pricing the asset or liability. As a basis for considering market participant assumptions in fair value measurements, ASC 820 establishes a fair value hierarchy that distinguishes between market participant assumptions based on market data obtained from sources independent of the reporting entity (observable inputs that are classified within Levels 1 and 2 of the hierarchy) and the reporting entity's own assumptions about market participant assumptions (unobservable inputs classified within Level 3 of the hierarchy).

Level 1 inputs utilize quoted prices (unadjusted) in active markets for identical assets or liabilities that the Company has the ability to access. Level 2 inputs are inputs other than quoted prices included in Level 1 that are observable for the asset or liability, either directly or indirectly. Level 2 inputs may include quoted prices for similar assets and liabilities in active markets, as well as inputs that are observable for the asset or liability (other than quoted prices), such as interest rates, foreign exchange rates, and yield curves that are observable at commonly quoted intervals. Level 3 inputs are unobservable inputs for the asset or liability which are typically based on an entity's own assumptions, as there is little, if any, related market activity. In instances where the determination of the fair value measurement is based on inputs from different levels of the fair value hierarchy, the level in the fair value hierarchy within which the entire fair value measurement falls is based on the lowest level input that is significant to the fair value measurement in its entirety. The Company's assessment of the significance of a particular input to the fair value measurement in its entirety requires judgment, and considers factors specific to the asset or liability. See Note 7 to the Company's condensed consolidated financial statements contained in this Quarterly Report on Form 10-Q for assets and liabilities the Company has evaluated under ASC 820.

Item 3. Quantitative and Qualitative Disclosures about Market Risk

The Company may be minimally exposed to market risk through changes in market interest rates that could affect the interest earned on its cash balances.

The Company measures all derivatives, including certain derivatives embedded in contracts, at fair value and recognizes them on the balance sheet as an asset or a liability, depending on the Company's rights and obligations under the applicable derivative contract.

In June 2009, the Company completed the sale of 0.9 million shares of its common stock and the issuance of warrants to purchase 1.0 million common shares (the "2009 Warrants") pursuant to a subscription agreement with a single investor. The Company received proceeds of \$3.0 million, with net cash proceeds after related expenses from this transaction of approximately \$2.7 million. Of those proceeds, the Company allocated an estimated fair value of \$2.2 million to the warrant liability. The fair value of the 2009 Warrants on June 15, 2009 was determined by using an option pricing model assuming a risk free interest rate of 2.75%, volatility of 72.93% and an expected life equal to the contractual life of the 2009 Warrants (June 2014). As required by the 2009 Warrant agreement, the exercise price of the warrants was adjusted following the Company's December 2012 sale of common stock. At June 30, 2013, the 2009 Warrants were exercisable at \$1.20 per share with 1.0 million shares outstanding. The 2009 Warrants have a five-year term.

In May 2012, the Company completed the sale of 15.3 million shares of its common stock and the issuance of warrants to purchase 4.6 million common shares (the "2012 Warrants") pursuant to an underwriting agreement. The Company received proceeds of \$21.5 million, with net cash proceeds after related expenses from this transaction of approximately \$21.1 million. Of those proceeds, the Company allocated an estimated fair value of \$3.4 million to the 2012 Warrants. The fair value of the 2012 Warrants on May 31, 2012 was determined by using an option pricing model assuming a risk free interest rate of 0.35%, volatility of 80.64% and an expected life equal to the contractual life of the 2012 Warrants (May 2015). As required by the 2012 Warrant agreement, the exercise price of the warrants was adjusted following the Company's December 2012 sale of common stock. At June 30, 2013, the 2012 Warrants were exercisable at \$1.20 per share with 4.4 million warrants outstanding. The 2012 Warrants have a three-year term. The shares and warrants were issued pursuant to an effective registration statement on Form S-3. During the six months ended June 30, 2013, 0.2 million 2012 Warrants were exercised for net proceeds of approximately \$0.2 million.

The \$3.4 million in proceeds allocated to the 2012 Warrants and the \$2.2 million in proceeds allocated to the 2009 Warrants are classified as derivative instrument liabilities. The terms of the warrants provide for potential adjustment in the exercise price and are therefore considered to be derivative instrument liabilities that are subject to mark-to-market adjustment each period. As a result, for the three month period ended June 30, 2013, the Company recorded pre-tax derivative instrument income of \$5.1 million. The resulting derivative instrument liabilities totaled \$0.4 million at June 30, 2013. Management expects that the warrants will either be exercised or expire worthless. The fair value of the Warrants at June 30, 2013 was determined by using an option pricing model assuming the following:

	<u>2012 Warrants</u>	<u>2009 Warrants</u>
Expected volatility	91.75%	95.60%
Risk-free interest rates	0.36%	0.15%
Expected life (in years)	2.00	1.00

Item 4. Controls and Procedures

Evaluation of Disclosure Controls and Procedures

Delcath's management, with the participation of its Chief Executive Officer and Chief Financial Officer, evaluated the effectiveness of the design and operation of its disclosure controls and procedures (as defined in Rule 13a-15(e) or 15d-15(e) of the Exchange Act. Based on that evaluation, the Company's Chief Executive Officer and Chief Financial Officer concluded that Delcath's disclosure controls and procedures as of June 30, 2013 (the end of the period covered by this Quarterly Report on Form 10-Q), have been designed and are functioning effectively to provide reasonable assurance that the information required to be disclosed by us in the Company's reports filed or submitted under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms, and that such information is accumulated and communicated to management, including the Company's Chief Executive Officer and Chief Financial Officer, as appropriate to allow timely decisions regarding required disclosure.

Changes in Internal Controls

There was no change in our internal control over financials reporting that occurred during the quarter ended June 30, 2013 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

PART II: OTHER INFORMATION

Item 1. Legal Proceedings

Bryan Green, individually and on behalf of all others similarly situated, v. Delcath Systems, Inc., et al., United States District Court for the Southern District of New York (Case No. 1:13-cv-03116-LGS); Joseph Connico, individually and on behalf of all others similarly situated, v. Delcath Systems, Inc., et al., United States District Court for the Southern District of New York (Case No. 1:13-cv-04131-LGS).

On May 8, 2013, a purported stockholder of the Company filed a putative class action complaint in the United States District Court for the Southern District of New York, captioned Bryan Green, individually and on behalf of all others similar situated, v. Delcath Systems, Inc., et al. (“Green”), Case No. 1:13-cv-03116-LGS. On June 14, 2013, a substantially similar complaint was filed in the United States District Court for the Southern District of New York, captioned Joseph Connico, individually and on behalf of all others similarly situated, v. Delcath Systems, Inc., et al. (“Connico”), Case No. 1:13-cv-04131-LGS.

Both complaints name the Company, Eamonn P. Hobbs, and Krishna Kandarpa, as defendants (the “Defendants”). The complaints assert that Defendants violated Sections 10(b) and 20(a) of the Securities Exchange Act of 1934 by allegedly making false and misleading statements or omissions regarding (i) the Company’s New Drug Application for its Melblez Kit (Melblez (melphalan) for Injection for use with the Delcath Hepatic Delivery System), for the treatment of patients with unresectable metastatic ocular melanoma in the liver, and (ii) the status of the Company’s manufacturing facilities. The putative class period alleged in both complaints is April 21, 2010 through and including May 2, 2013. The plaintiff in the Green action seeks compensatory damages, rescissionary damages, equitable relief, and reasonable attorneys’ fees, expert fees and other costs, and the plaintiff in the Connico action seeks damages, as well as reasonable attorneys’ fees, expert fees and other costs. At a hearing on August 2, 2013, the Court consolidated the Green and Connico actions under the caption In re Delcath Systems, Inc. Securities Litigation, No. 13-cv-3116, appointed Lead Plaintiff, Delcath Investor Group, and approved Pomerantz Grossman Hufford Dahlstrom & Gross LLP as Lead Plaintiff’s choice of counsel. Further, the Court ordered that the consolidated amended complaint in In re Delcath Systems, Inc. Securities Litigation will be due on September 18, 2013, and set a briefing schedule with respect to the anticipated motion to dismiss.

The Company believes that the In re Delcath Systems, Inc. Securities Litigation action lacks merit and intends to defend the cases vigorously.

In re Delcath Systems, Inc. Derivative Shareholder Litigation, United States District Court for the Southern District of New York (Lead Case No. 1:13-cv-03494-LGS)

On May 23, 2013, purported stockholders of the Company filed a shareholder derivative lawsuit in the United States District Court for the Southern District of New York, captioned Vincent J. Orlando and Carol Orlando, derivatively on behalf of Delcath Systems, Inc. v. Harold S. Koplewicz, et al. (“Orlando”), Case No. 1:13-cv-03494-LGS. On June 11, 2013, a substantially similar complaint was filed in the United States District Court for the Southern District of New York, captioned Howard Warsett, derivatively on behalf of Delcath Systems, Inc. v. Harold S. Koplewicz, et al. (“Warsett”), Case No. 1:13-cv-04002-LGS. On July 19, 2013, another substantially similar complaint was filed in the United States District Court for the Southern District of New York, captioned Patricia Griesi, derivative on behalf of nominal defendant Delcath Systems, Inc. v. Harold S. Koplewicz, et al. (“Griesi”), Case No. 13 cv 5024. In all three cases, Harold S. Koplewicz, Laura A. Brege, Tasos G. Konidaris, Eamonn P. Hobbs, Douglas G. Watson, Laura A. Philips, Roger G. Stoll, and Gabriel Leung were named as defendants (the “Individual Defendants”), and the Company was named as a nominal defendant.

All three complaints assert claims for breach of fiduciary duty for disseminating false and misleading information, breach of fiduciary duty for failing to properly oversee and manage the company, and gross mismanagement for making false and misleading statements or failing to disclose material information regarding (i) the Company’s New Drug Application for its Melblez Kit (Melblez (melphalan) for Injection for use with the Delcath Hepatic Delivery System), for the treatment of patients with unresectable metastatic ocular melanoma, and (ii) the status of the Company’s manufacturing facilities. In addition, the Orlando complaint further asserts claims for contribution and indemnification, abuse of control, and waste of corporate assets, while the Warsett complaint asserts an additional claim for unjust enrichment. The Griesi complaint also asserts additional claims for breach of fiduciary duties for failing to maintain internal controls, unjust enrichment, abuse of control, and violations of Section 14(a) of the Securities Exchange Act of 1934. The relevant time period alleged in the Orlando action is April 21, 2010 through the present, and the relevant time period alleged in the Warsett action is April 10, 2010 through the present. The relevant time period alleged in Griesi is April 21, 2010 through May 2, 2013. The Orlando, Warsett, and Griesi plaintiffs seek damages as well as reasonable costs and attorneys’ fees. The Griesi plaintiffs also seek corporate governance reforms and improvements and restitution.

On June 25, 2013, the Court consolidated the Orlando and Warsett actions with the caption In re Delcath Systems, Inc. Derivative Shareholder Litigation, Lead Case No. 1:13-cv-03494-LGS (“Consolidated Derivative Case”). On August 1, 2013, the Court consolidated the Griesi action under the caption In re Delcath Systems, Inc. Derivative Shareholder Litigation, Lead Case No. 1:13-cv-03494-LGS. At a hearing on August 2, 2013, the Court entered an order approving Federman & Sherwood as lead counsel. The Court stayed the Consolidated Derivative Case, pending resolution of an anticipated motion to dismiss in In re Delcath Systems, Inc. Securities Litigation, No. 13-cv-3116.

The defendants in the Consolidated Derivative Case deny any wrongdoing, believe the claims are baseless, and will defend accordingly.

Howard D. Weinstein, derivatively on behalf of Delcath Systems, Inc. v. Harold S. Koplewicz, et al., Supreme Court of the State of New York County of New York (Case No. 652030/2013)

On June 7, 2013, a purported stockholder of the Company filed a shareholder derivative lawsuit in the Supreme Court of the State of New York County of New York, captioned Howard D. Weinstein, derivatively on behalf of Delcath Systems, Inc. v. Harold S. Koplewicz, et al., (“Weinstein”) Case No. 652030/2013. The action named Harold S. Koplewicz, Laura A. Brege, Tasos G. Konidaris, Eamonn P. Hobbs, Douglas G. Watson, Laura A. Philips, Roger G. Stoll, and Gabriel Leung as individual defendants (the “Individual Defendants”), as well as the Company, as a nominal defendant.

The complaint asserts claims for breach of fiduciary duty for disseminating false and misleading information, breach of fiduciary duty for failing to properly oversee and manage the company, gross mismanagement, contribution and indemnification, abuse of control, and waste of corporate assets in connection with allegations that the Individual Defendants made false and misleading statements or failed to disclose material information regarding (i) the Company’s New Drug Application for its Melblez Kit (Melblez (melphalan) for Injection for use with the Delcath Hepatic Delivery System), for the treatment of patients with unresectable metastatic ocular melanoma, and (ii) the status of the Company’s manufacturing facilities. The relevant time period alleged is April 21, 2010 through the present. The plaintiff seeks damages, as well as reasonable costs and attorneys’ fees.

On July 16, 2013, the parties in the Weinstein matter stipulated to stay the proceeding until the federal district court rules on the anticipated motion to dismiss in In re Delcath Systems, Inc. Securities Litigation, No. 13-cv-3116.

The defendants in the Weinstein matter deny any wrongdoing, believe the claims are baseless, and will defend accordingly.

Item 1A. Risk Factors

Delcath’s 2012 Annual Report on Form 10-K, in Part 1, Item 1A. "Risk Factors," contains a detailed discussion of factors that could materially adversely affect our business, operating results and/or financial condition. There have been no material changes in these risk factors since such disclosure.

Item 2. Unregistered Sales of Equity Securities and Use of Proceeds

Not Applicable.

Item 3. Defaults upon Senior Securities

Not Applicable.

Item 4. Mine Safety Disclosures

Not Applicable.

Item 5. Other Information

Not Applicable.

Item 6. Exhibits

<u>Exhibit No.</u>	<u>Description</u>
31.1	** Certification by Principal executive officer Pursuant to Rule 13a 14.
31.2	** Certification by Principal financial officer Pursuant to Rule 13a 14.
32.1	*** Certification of Chief Executive Officer Pursuant to 18 U.S.C. Section 1350 as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002
32.2	*** Certification of Principal financial officer Pursuant to 18 U.S.C. Section 1350 as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
101.INS	XBRL Instance Document
101.SCH	XBRL Taxonomy Extension Schema Document
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document
101.LAB	XBRL Taxonomy Extension Label Linkbase Document
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document

** Filed herewith.

*** Furnished herewith.

SIGNATURES

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

August 6, 2013

DELCATH SYSTEMS, INC.
(Registrant)

/s/Graham G. Miao

Graham G. Miao
Chief Financial Officer
(Principal Financial Officer)

Exhibit Index

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** Filed herewith.

*** Furnished herewith.

**Certification
of Principal Executive Officer
Pursuant to Rule 13a-14(a) and 15d-14(a) of the Exchange Act**

I, Eamonn P. Hobbs, certify that:

- 1) I have reviewed this Quarterly Report on Form 10-Q of Delcath Systems, Inc;
- 2) Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3) Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4) The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5) The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

August 6, 2013

/s/Eamonn P. Hobbs

Eamonn P. Hobbs
President and Chief Executive Officer
(Principal Executive Officer)

**Certification
of Principal Financial Officer
Pursuant to Rule 13a-14(a) and 15d-14(a) of the Exchange Act**

I, Graham G. Miao, certify that:

- 1) I have reviewed this Quarterly Report on Form 10-Q of Delcath Systems, Inc;
- 2) Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3) Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4) The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5) The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

August 6, 2013

/s/Graham G. Miao

Graham G. Miao
Chief Financial Officer
(Principal Financial Officer)

**Certification Pursuant to
18 U.S.C. Section 1350,
as Adopted Pursuant to
Section 906 of the Sarbanes –Oxley Act of 2002**

In connection with the Quarterly Report of DELCATH SYSTEMS, INC. (the “Company”) on Form 10-Q for the fiscal quarter ended June 30, 2013, as filed with the Securities and Exchange Commission on the date hereof (the “Report”), I, Eamonn P. Hobbs, the President and Chief Executive Officer of the Company, certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, that, to my knowledge:

- (1) The Report fully complies with the requirements of section 13(a) or 15(d), as applicable, of the Securities Exchange Act of 1934, as amended; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

August 6, 2013

/s/Eamonn P. Hobbs

Eamonn P. Hobbs
President and Chief Executive Officer
(Principal Executive Officer)

**Certification Pursuant to
18 U.S.C. Section 1350,
as Adopted Pursuant to
Section 906 of the Sarbanes –Oxley Act of 2002**

In connection with the Quarterly Report of DELCATH SYSTEMS, INC. (the “Company”) on Form 10-Q for the fiscal quarter ended June 30, 2013, as filed with the Securities and Exchange Commission on the date hereof (the “Report”), I, Graham G. Miao, the Chief Financial Officer of the Company, certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, that, to my knowledge:

- (1) The report fully complies with the requirements of section 13(a) or 15(d), as applicable, of the Securities Exchange Act of 1934, as amended; and
- (2) The information contained in the report fairly presents, in all material respects, the financial condition and results of operations of the Company.

August 6, 2013

/s/Graham G. Miao

Graham G. Miao
Chief Financial Officer
(Principal Financial Officer)