J.P.Morgan

NanoString

Stringing Together the Next Big Story in Tools and Diagnostics; Initiating with OW and \$14 PT

We are initiating coverage of NanoString (NSTG) with an Overweight rating and December 2014 DCF-derived price target of \$14. As a life science company moving into diagnostics, NSTG can leverage several trends, including a migration from analog to digital multiplex analysis, and the need for new clinically relevant content in areas like breast cancer analysis. With steady growth in the life science business today, and anticipated FDA approval of the ProSigna Breast Cancer assay in 1Q14 (JPMe), we expect the company to outgrow peers, aided by an expanding installed base of nCounter systems, increased consumable pull-through and, ultimately, adoption/acceptance of ProSigna and other follow-on tests.

- Life science business should provide steady base for the next several years. NanoString has an established life sciences business, with an installed base of >140 nCounter instruments, which have had an average pull-through of ~\$100K in consumables over the last three years. We expect this business to continue to grow with a CAGR of 27% from 2012 to 2016E. To date, the technology has seen strong adoption in a number of markets including gene expression analysis, microRNA expression and copy number variation analysis.
- Long-term, diagnostics franchise should be primary driver of growth. While the life science business currently provides a solid base, the primary driver over the next few years, from both a growth and sentiment perspective, is expected to be the ProSigna Breast Cancer assay, which we project to grow to >30K tests per year in 2016 (following anticipated FDA approval in 1Q14). Based on data presented from clinical studies, including TransATAC, which showed Prosigna assigned 26% fewer patients to an intermediate risk profile and almost doubled the amount in high risk compared to Oncotype Dx (from GHDX), we expect NSTG to take share, in addition to converting the underlying market. Furthermore, a decentralized business model and favorable reimbursement should incentivize labs to bring the test in house.
- Proprietary physician survey bodes well for potential ProSigna adoption. In
 conjunction with our initiation, we surveyed 54 breast cancer physicians with results
 highly positive for NSTG, as 47 of the 54 (or 87%) surveyed physicians said that
 they would consider using ProSigna once it gains FDA approval. Full survey results
 are provided later in this note beginning on page 11.
- Introducing December 2014 price target of \$14. We see room for upside as NSTG has underperformed the S&P 500 by 14% since the IPO and is well positioned to outgrow peers in two attractive end markets. Our 2014 price target of \$14 is derived using a 10-year DCF methodology and represents 50% upside to latest close.

NanoString Technologies, Inc. (NSTG:NSTG US)

FYE Dec	2011A	2012A	2013E	2014E	2015E
Revenue (\$ mn)					
Q1 (Mar)	4	5	6A	10	18
Q2 (Jun)	5	6	7	12	20
Q3 (Sep)	4	6	7	14	21
Q4 (Dec)	5	6	10	21	28
FY	18	23	29	58	87
Source: Company data, Blo	omberg, J.P. Morgan	estimates.			

Overweight

NSTG, NSTG US Price: \$9.44

Initiation

Price Target: \$14.00

Life Science Tools & Diagnostics Tycho W. Peterson $^{\rm AC}$

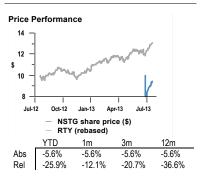
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Company Data	
Price (\$)	9.44
Date Of Price	19 Jul 13
52-week Range (\$)	10.00-7.81
Market Cap (\$ mn)	94.40
Fiscal Year End	Dec
Shares O/S (mn)	10
Price Target (\$)	14.00
Price Target End Date	31-Dec-14

See page 31 for analyst certification and important disclosures.

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Investment Thesis

NanoString (NSTG) Overweight

Life science business should provide steady base for the next several years

NanoString has an established life sciences business, with an installed base of >140 nCounter instruments, which have had an average pull-through of ~\$100K in consumables over the last three years. We expect this business to continue to grow with a CAGR of 27% from 2012 to 2016E and project the installed base to grow to 391 systems by the end of 2016. To date, the technology has seen strong adoption in a number of markets including gene expression analysis, microRNA expression and copy number variation analysis.

Long-term, diagnostics franchise should be primary driver of growth

While the life science business currently provides a solid base, the primary driver for NanoString over the next few years, from both a growth and sentiment perspective, is expected to be the ProSigna Breast Cancer assay, which we project to grow to >30K tests per year in 2016 (following anticipated FDA approval in 1Q14). Based on data presented from clinical studies, including TransATAC, which showed Prosigna assigned 26% fewer patients to an intermediate risk profile and almost doubled the amount in high risk compared to Oncotype Dx (from GHDX), we expect the company to take share, in addition to converting the underlying market. Furthermore, a decentralized business model, in which instruments are placed with customers, and favorable reimbursement should incentivize reference labs and others to bring the test in house.

Proprietary physician survey bodes well for potential ProSigna adoption

In conjunction with this initiation, we recently surveyed 54 breast cancer physicians with results, discussed within, highly positive for NanoString, as 47 of the 54 (or 87%) surveyed physicians said that they would consider using ProSigna once it gains FDA approval. Full survey results are provided later in this note beginning on page 11.

Margin profile becomes more attractive as Prosigna sales grow

While we are expecting strong growth in the Life Sciences business from 2012 to 2016E (CAGR of 27%) the primary driver of the growth should be the Diagnostics business which we expect to grow from zero revenue in 2012 to \$61M in 2016E, with Prosigna having revenues of \$37M in the U.S. and \$24M OUS. We model significant GM expansion over that time (GM of 46.4% in 2012, 69.1% in 2016E) as high-margin consumables become a larger part of the Life Sciences revenue mix and Prosigna, which will carry substantially higher GM, should be the primary growth driver and becomes a larger part of revenue. We believe this high-growth profile with significantly expanding GM will be attractive to investors.

Introducing December 2014 price target of \$14

We see room for upside as NanoString has underperformed the S&P 500 by 14% since the IPO and is well positioned to outgrow peers in two attractive end markets. Our 2014 price target of \$14 is derived using a 10-year DCF methodology and represents 50% upside from latest close.



Risks to Rating and Price Target

FDA approval is pushed out or not obtained

NanoString submitted a 510(k) for the ProSigna breast cancer assay in December 2012 and FDA approval is expected by early 2014. If this approval is pushed out or the FDA denies the request, the company's anticipated growth rate would be significantly impacted.

Market share gains in diagnostics market may be slower than anticipated

If Prosigna is approved, NanoString must then execute on commercializing the test and building out a sales force to gain share from a larger competitor with >90% of the market. There is a chance the company gains share more slowly than expected which would push profitability out to a later time period.

Company may need to raise cash again within 1-2 years

While the company is currently well capitalized after raising \$55M in the IPO, it is burning a significant amount of cash each quarter and will likely need to raise cash through equity or debt at some point in 2014; this may dilute shareholders and could be done on unfavorable terms.

Reimbursement may not be approved

There is always uncertainty with reimbursement for new technologies and tests; if NanoString is unable to obtain coverage at adequate levels, the market acceptance of ProSigna would be negatively impacted.

Company Description

Since being founded in 2003 NanoString has developed the nCounter Analysis System and the ProSigna Breast Cancer Assay. The company operates in two key markets, Life Sciences tools and Molecular Diagnostics. Currently, the nCounter instruments and consumables represent the substantial majority of the company's revenue. We expect ProSigna will be approved by the FDA and launched in early 2014 with a strong uptake, gaining share from competition. NanoString is traded on the NASDAQ under the ticket NSTG.

Corporate Overview

NanoString was incorporated in Delaware in 2003 and is headquartered in Seattle, WA. On June 26th, 2013 the company listed on NASDAQ in an IPO of 5.4 million shares, for which J.P. Morgan was a lead book-runner.

Today, the company operates in two key markets: Life Sciences, with the nCounter system, and Diagnostics with the Prosigna test, which is also run on nCounter. Currently, all revenue comes from Life Sciences business, but the primary growth driver in the future should come from the Diagnostics segment, as Prosigna is expected to be FDA approved by 1Q14. Over the last ten years, NanoString has grown its sales force to more than 30 reps, with an installed base of over 140 systems and revenue of \$23M in 2012.

Stepping back, the addressable market for Life Sciences is the >\$28B currently spent by researchers on tools and related consumables, including \sim1.2B$ spent on gene expression profiling products. The molecular diagnostics market is expected to grow to \sim6.2B$ in 2014, and within this, NanoString will initially target the breast cancer segment, for which there are estimated to be $\sim235K$ newly diagnosed cases in the U.S. this year.

nCounter system

The nCounter system is NanoString's simple-to-use genomic analysis platform that is the foundation for both the Life Sciences and Diagnostics businesses. Among other things, the multiplexing system is rapidly replacing older analog technologies (microarrays, PCR) while being complementary for next-gen sequencing, for areas including gene expression analysis, miRNA and copy number variation analysis.

The primary competitive advantage for nCounter is that the system does not use enzymes or amplification, which simplifies the workflow, minimizes the possibility of human error and does not require specialized staff to operate, which lowers the total cost of analysis. Since being launched, the nCounter system has seen rapid adoption in cancer biomarker discovery and validation, and the company now has an installed base of over 140 systems in genome centers and smaller academic labs. The system, which, among other things, is used to validate next-gen sequencing discoveries and translate them into clinically actionable information for drug and diagnostics development, is able to profile up to 800 genes simultaneously and requires only a small amount of tissue as a sample. Another benefit of the system is the simple workflow, as the machine only requires ~15 minutes of technician handson time, including five minutes to add the buffer, CodeSet and sample to a strip tube before leaving it for 12 hours/overnight (for hybridization), followed by another five minutes to set up the prep station by placing the strip tube onto the automated Prep Station with reagents and consumables, before an automated 2.5-3 hours to purify the sample and a final five minutes hands-on time taking the cartridge from the Prep Station and placing it into the Digital Analyzer before the last 3-4.5 automated hours to count the gene expression.

nane Strine Transferre

Figure 1: nCounter Prep Station

Source: Company report.

Stepping back, we believe the immediate addressable market is replacing the microarrays that are used in high-throughput gene expression work which we estimate at \sim 3,000 systems, which means nCounter is currently \sim 5% penetrated in this market. However, notably, the company also has a third-generation system in development, which could expand the market into the tens of thousands of systems, similar to PCR.

In terms of consumables, the system allows for a razor/razor blade model, with a list price of ~\$235K and average annual system pull-through over the last three years of >\$100K. Over time, as the system moves more into diagnostics, we believe the company could eventually move to more a reagent rental model.

ProSigna breast cancer assay

NanoString secured an exclusive worldwide license to the PAM50 gene signature from Washington University, a life sciences customer, in 2010 which is the foundation for the Prosigna assay. Prosigna provides an assessment of a patient's risk of recurrence (ROR) which is a prognostic score that predicts the probability of cancer recurrence over ten years. It also provides the patient and physician with the intrinsic subtype classification of the tumor, something that the competition does not offer and is a distinct competitive advantage. In a head-to-head study vs. Oncotype DX, Prosigna assigned 26% fewer patients to the intermediate risk profile and almost double the amount in high risk. Results can be available in two days vs. 10-14 with Genomic Health's or Agendia's test.

Prosigna is an IVD platform that enables local clinical labs to decentralize high-value cancer testing which offers them an economic incentive. In the U.S., the company will seek a similar reimbursement level to Genomic Health and initially follow that model with expectations of reimbursement immediately when the test is approved. Eventually we expect the company to seek a unique code. Decision impact studies showing the chemotherapy expense and usage decrease with Prosigna are key to reimbursement in European countries, and we expect the company will invest in these in the coming years.

The test is currently available in Israel and EU where it was launched in February 2013 with CE Mark and a 510(k) (submitted in December 2012) is under review with the FDA with the expectation of a commercial launch in the US in 1Q14. We note that Agendia has received FDA approval for its test and NanoString only needs to prove equivalency (not superiority) for approval. The company plans to conduct future clinical studies to evaluate Prosigna's ability to guide physicians and patients in making additional treatment decisions (appropriate chemo regimen, duration of adjuvant endocrine therapy, whether to use adjuvant radiation therapy) in Hormone Receptive (HR+) early-stage breast cancer.

TransATAC study

In 2011, NanoString conducted a clinical study of 1,017 patients with estrogen receptor (ER) positive breast cancer to evaluate the ability of the ROR score to add prognostic information to clinicopathologic variables. The median follow-up of patients was 10 years. The purpose of the study was to find out if the ROR score could provide an alternative approach to Genomic's ODX recurrence score (RS) while also identifying intrinsic subtypes. The study used extracts available from Genomic Health's ATAC study which were screened so that the sample had hormone receptor positive disease by central analysis, chemotherapy not received, RS available, and sufficient residual RNA for PAM50 analysis. The primary end point of the study was time from random assignment to first DR and other secondary/primary cancers were not considered events for TTDR. The study concluded that in the overall population and each subgroup, additional prognostic information beyond that in the CTS was greater for ROR than RS with better differentiation of intermediate-and higher-risk groups.

Figure 2: Comparisons of Added Prognostic Information

				Comparison										
ROR (including tumor size)	No. of	No. o		CTS (1 df)		ROR (1 a	ROR (1 df)		RS (1 df)		S Versus df)	RS + CTC Versus C (1 df)		
	Patients	DRs		$R - \Delta \chi^2$	P	$LR - \chi^2$	Р	$LR - \chi^2$	P	$LR - \Delta \chi^2$	P	$LR - \Delta \chi^2$	P	
All patients	1,007	160		144.9 <	.001	99.9	< .001	38.2	< .001	33.9	< .001	22.7	< .001	
Node-negative patients	739	79		45.1	.001	60.9	< .001	28.2	< .001	24.6	< .001	15.0	< .001	
HER2-negative/node-negative patients	649	62		36.6 ×	< .001	53.7	< .001	22.9	< .001	23.4	< .001	10.2	.001	
								Comparis	on					
	No. of	No. o		CTS (1 df)		ROR* (1 df)		RS (1 df)		ROR* + CTS Versus CTS (1 df)		RS + CTS Versus CTS (1 df)		
ROR* (excluding tumor size)	Patients			$R - \Delta \chi^2$	Р	$LR - \chi^2$	P	LR - x2	P	$LR - \Delta \chi^2$	P	$LR - \Delta \chi^2$	P	
Al patients	1,007	160		144.9 <	< .001	87.4	< .001	38.2	< .001	34.3	< .001	22.7	< .001	
Node-negative patients	739	79		45.1	.001	55.1	< .001	28.2	< .001	23.7	< .001	15.0	< .001	
HER2 negative/node negative patients	649	62		36.6	:.001	49.9	< .001	22.9	< .001	23.3	< .001	10.2	.001	
				82				Compa	arison					
	No.		No. of	IHC4 + CT CTS (RS + CTS		ROR* + C						
Sample splitting ROR* (excluding tumor size			DRs	$LR - \Delta \chi^2$	Р	$LR - \Delta \chi^2$	P	$LR - \Delta \chi^2$	P					
Al patients	940)	154	28.7	< .001	17.6	< .001	27.6	<.001					
Node-negative patients	683		74	22.4	< .001	123	< .001	19.3	<.001					
HER2-negative/node-negative patients	615		59	13.6	< .001	80	.005	22.4	< .001					

Source: Journal of Clinical Oncology "Comparison of PAM50 ROR Score with Oncotype DX and IHC4 for Predicting Risck of Distant Recurrence after Endocrine Therapy."

Figure 3: Comparison of Proportion of Node-Negative Patients by Risk Group Using ROR vs. RS

	L	OW	Intern	nediate	Н	igh	Total		
Test	No.	%	No.	%	No.	%	No.	%	
ROR* (excluding tumor size)									
No CTS									
RS									
Low	309		110		15		434	58.7	
Intermediate	114		67		62		243	32.9	
High	5		15		42		62	8.4	
Total	428	57.9	192	26.0	119	16.1	739	100	
CTS included									
RS									
Low	379		59		2		440	59.5	
Intermediate	61		90		50		201	27.2	
High	3		18		77		98	13.3	
Total	443	59.9	167	22.6	129	17.5	739	100	
ROR (including tumor size)									
No CTS									
RS									
Low	318		97		19		434	58.7	
Intermediate	113		68		62		243	32.9	
High	6		14		42		62	8.4	
	437	59.1	179	24.2	123	16.6	739	100	
CTS included									
RS									
Low	386		53		1		440	59.5	
Intermediate	61		94		46		201	27.2	
High	4		18		76		98	13.3	
Total	451	61.0	165	22.3	123	16.6	739	100	

Abbreviations: CTS, clinical treatment score; ROR, risk of recurrence; RS, recurrence score.

Source: Journal of Clinical Oncology "Comparison of PAM50 ROR Score with Oncotype DX and IHC4 for Predicting Risck of Distant Recurrence after Endocrine Therapy."

Competition

NanoString competes with a number of established life sciences research companies when selling nCounter, including Affymetrix, Agilent, Bio-Rad, Exiqon, Fluidigm, High Throughput Genomics, Illumina, Life Technologies, Luminex, Perkin Elmer, and Qiagen (another competitor, Roche Applied Science, recently announced plans to restructure and exit the market). There are also several earlier-stage companies, including RainDance and Wafergen Bio-Systems, developing competitive technologies. That said, while we view the competition as real, we believe that competition in the diagnostics market is far more important to both the longer-term growth profile and investor sentiment, with the greatest competition to ProSigna being Genomic Health (Oncotype Dx) and Agendia (Symphony).

Genomic Health

Genomic Health is the current market leader, with >95% market share in the breast cancer testing market. The primary competitive advantage Genomic Health uses to market its test is the ability to predict a chemotherapy benefit with a high Recurrence Score (RS) or a lack of chemotherapy benefit relative to risks with a low RS with the downside of what to do with an intermediate RS remaining an ongoing question. The CLIA test, which was launched as a service in 2005, is now included in major breast cancer guidelines (including ASCO and NCCN) for treatment decision making and is widely reimbursed in the U.S.

Agendia

Agendia offers the Symphony suite of tests for breast cancer, which has shown an ability to predict the risk of breast cancer recurrence in the first five years following diagnosis. Until early 2012, when it introduced a technology to accept formalin fixed paraffin embedded (FFPE) samples, the company was only able to accept fresh frozen tissue, which represents a small part of the market. In terms of the clinical data, Agendia's largest data set was provided by the RASTER outcome study, which included five-year outcomes-based prospective data from 16 centers and 427 patients enrolled between 2004 and 2007. The results showed that over half (51%) of patients were low risk vs. only less than a third (31%) being defined as low risk by traditional clinical parameters. Of the 51% low risk, >97% of patients were disease free at five years which compares to >91% of high-risk patients being disease free at five years. The 29% (87 patients) additional low-risk patients vs. traditional parameters were 98.4% disease free at five years. We believe Agendia is currently taking share from Genomic Health, while being relatively conservative with the sales build-out, although that could change if the company raises capital, as it has commented it intends to do.

Figure 4: Comparison of Tests

company	Genomic Health	Agendia	Nanostring
platform	Oncotype DX	Symphony	ProSigna
U.S. Year Introduced	2005	2011	2014 (expected)
FDA Approved	No	Yes	No (expected 1Q14)
Intrinsic subtyping	No	No	Yes
Allow for decentralized model for labs	No	No	Yes
Turnaround time	10-14 days	10-14 days	2 days
Prospective data	No	Yes	No
Predicts chemo benefit	Yes	No	No
U.S. Market Share	95%	5%	0%

Survey Results

To better understand the awareness of and interest in Prosigna, we surveyed 54 breast cancer doctors to get their opinion on the test. Overall, we view the responses positively as 38 of the 54 physicians had heard of Prosigna and 32 of those 38 had a positive view on the data from the TransATAC study. Importantly, of the 38 physicians who had heard of ProSigna, 36 would consider using the test in their practice if it was FDA approved. The detailed survey responses are below.

General awareness of Prosigna

We asked the 54 physicians if they had heard of ProSigna and 38 (or 71%) responded that they had heard of it. We also asked the physicians about Agendia's Symphony suite of tests and 41 (76%) had heard of the test. In our view, it is positive that Prosigna already has nearly the same name recognition with physicians that Symphony and believe this will only grow when the test receives FDA approval. As expected, all 54 physicians were familiar with Oncotype DX.

100%
80%
60%
40%
Oncotype DX
Symphony/Mammaprint NanoString Technologies / Prosigna

Figure 5: Which of the Following Breast Cancer Assays Are You Aware Of?

Source: J.P. Morgan Research Survey

Positive opinions on TransATAC study

We asked the physicians about their takeaway from the TransATAC study and 38 of the 54 respondents replied with some opinion. Overall, the responses bode well for NanoString, with 32 of the 38 physicians responding that the data from the test was positive. The full responses are below.

Figure 6: What Are Your Thoughts on the Data Presented from the TransATAC Study?

Mixed

notimpressed

compelling

Encouraging

Still too early

interesting technology

it is beneficial in predicting recurrence outcome

very impressive with value of test

Favorable for use of genomic testing for predicting risks of recurring

interesting. recurrence score is independent predictor of distant recurrence

i think prospective data for the RS is important, and this proves that

the breast cancer index (BCI) is a significant prognostic factor for late recurrence of ER+ patients

Suprising

Clincally proving the benifit of gene assay in predicting response

seems to work better than oncotypeDx for stratification in ER+ non-metastatic population

Neutral

Positive and will be useful.

Good test at helping predict recurrence risk

High gene throughput, but generalizability still requires prospective followup

genomic profiles are important in how breast cancer patients are treated

another good test to order for breast cancer patients

Interesting data that supports using our standard ER/PR/etc as well as oncotype

Large trial from which we can gain important information on biomarkers - which ultimatley predicts outcome - le - who needs chemo Data supports Prosigna use for risk stratification

interesting, compelling

It is validated.

Very important to know that the recurrence score is an independent predictor of distant relapse. Practice changing.

Supports the contention that the Prosigna Score adds prognostic information about the risk of 10-year distant recurrence in addition to that provided by standard clinical-pathological variables in the analysis of all patients studies

Prediction of recurrence risk seems possible based on a 21-gene signature. No prospective data to show that reduction of risk is possible with adjuvant therapy.

Solid data but not so much different than other trials

Positive about the long term applicability but needs to have more trials

adding RS in NO and node pos HR pos patients, adds to our previous ideas

Needs further studies

I think it will help identify node positive breast cancer patients that do not need chemotherapy.

Promising.

looks promising

It is a good predictor of recurrence of breast cancer.

IHC is also good predictive value. In our center Ki-67 is very accurate and counted vs guesstimated so it's more helpful in making therapeutic decisions

we have begun to extrapolate in selected patients based upon this data

Helpful to determine recurrence risk when receiving hormone therapy

Note: These survey comments have been reproduced in their original form and have not been edited. Survey comments should not be attributed to J.P. Morgan and are not necessarily representative of its views.

Source: J.P. Morgan Research Survey.

Usage of Prosigna if FDA approved

We asked the physicians how willing they would be to use Prosigna if it received FDA approval and 47 of the 54 (or 87%) physicians said they would consider using it. As a follow-up, we asked the physicians what factors would influence their



decision to use the test; the most frequent answers related to more clinical data and the price of the test. The full responses are below.

Figure 7: What Other Factors (Other than FDA Approval) Would Influence Your Decision of Whether to Use the Prosigna Breast Cancer Panel?

rigate 1. That Other ractors (Other than 1 5777pproval) Would inhabite four Decicion of Whitehold to	יים נווט ו ויטטונ
Ease of use, reimbursement	
low cost	
reliablity and timely of the test result	
Coverage by insurance companies	
peerusage	
need to review data	
Cost and coverage	
usefullness and supporting data	
coverage by payers. Peer review and prognostic and predictive information if available	
patient preference more information	
clinical data	
more data and more leaders relying on it to help in treatment decisions	
comparative results vs other tests we use now	
Needs prospective data that supports using it for treatment decisions. Additionally it needs some obvious ad	vantage
over oncotype.	ra mage
additional evidence and publications regarding the predictive value	
price	
level 1 evidence, support by my colleagues	
Clinical data	
lower cost	
Cost, co-pay, speed of return of results	
More data, Peer usage	
1. Accuracy. Needs to be more accurate than currently used tests 2. Ability to predict recurrence risk without che	emo in
patients with positive LN 3. Ability to integrate other clinical data (size of the tumor HER status)in the prognos	
=-coverage by insurance companies -confirmation of predictive value in another study -prediction of drug resp	onse
Price and insurancecoverage	
Cost	
Would like to see peerreviewed published information	
Prospective published data	
peer usage as well	
cost of test so coverage by pators payer preference clarity of information	
based on the merits and if it is better than oncotypedx	
presence/absence of intermediate score, personal experience	
=cost competitiveturnaround timeinsurer coverage	
Payor acceptance, speed of test results, more data	
thought leaders	
research backing up the claims	
Insurance coverage and out of pocket patient costs	
Risk of late failures. Pt age, favorable tumor characteristics.	
Insurance coverage	
Cost, Reimbursement,Opinion of Key Opinion Leaders	
Meaningful difference compared to existing modalities.	
prospective data, cost with pt. assistance, ease of ordering, payor coverage	
Wider panel	
l think this is the future in determining treatment decisions	
Clinical data	
It would have to be reimbursed by insurance or have a low copay cost so patients can afford the test.	
Available data	
experience	
Data behind it, peers using	
Price insurance approval.	
Prospective data	
insurance coverage NCCN guideline endorsement, covered by insurance	
Neon gardenne endoisement, covered by misurance	

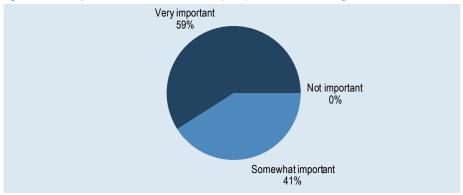
Note: These survey comments have been reproduced in their original form and have not been edited. Survey comments should not be attributed to J.P. Morgan and are not necessarily representative of its views.

Source: J.P. Morgan Research Survey.

Importance of ROR

We also asked the physicians about the significance of the ROR score as we view the key question for NanoString as being how much physicians will value this score in their treatment decisions. When asked how important the ROR score is when dealing with patients, 59% responded that it was "very important" while 41% responded it was "somewhat important"—no physicians replied that it was "not important".

Figure 8: How Important Is Risk of Recurrence (ROR) Score When Dealing with Patients?



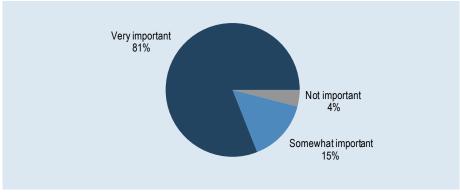
Source: J.P. Morgan Research Survey.

In addition, we asked the physicians if they saw the ROR score as a differentiating factor for whether to use a test such as Prosigna and 59% of the physicians responded that they did see it as a differentiating factor.

Importance of intrinsic sub-typing

Since intrinsic sub-typing is a competitive advantage for Prosigna, we asked the physicians how important they felt it was and if they felt it would be included in the guidelines. Of the 54 physicians, 42 (78%) responded that they believe intrinsic sub-typing will ultimately be written into guidelines. On the importance of intrinsic sub-typing, 44 (81%) responded it was "very important," eight (15%) responded it was "somewhat important" and two (4%) responded it was "not important."

Figure 9: How Important Is Intrinsic Sub-Typing?



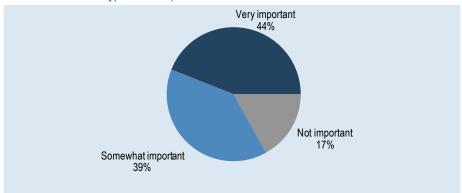
Source: J.P. Morgan Research Survey.

Trials and FDA

As the trials for Oncotype DX and Prosigna have been retrospective, we asked the physicians if they felt that was sufficient or if there was a need for comprehensive

prospective trials. The physicians felt that prospective trials were ultimately needed, with 48 (89%) responding that way while only six (11%) felt that retrospective trials were sufficient. We also asked the physicians how important FDA approval was for a test as Oncotype DX does not have approval but Agendia's MammaPrint does. Physician responses were mixed, with 24 (44%) saying it was "very important," 21 (39%) saying it was "somewhat important" and nine (17%) saying it was "not important." We continue to believe Prosigna gaining FDA approval will be key to the growth trajectory.

Figure 10: How Important Is FDA Clearance for a Test (i.e., MammaPrint Currently Has FDA Clearance While Oncotype Does Not)?

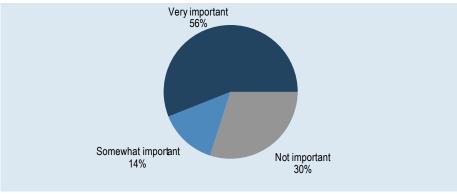


Source: J.P. Morgan Research Survey.

Test processing

As NanoString has highlighted the importance of Prosigna enabling a decentralized testing model, we asked the physicians how important the location of where the test was processed was and, surprisingly, 16 (30%) responded that it was "not important" while 30 (56%) responded it was "very important." We would have anticipated a smaller percentage responding that it is not important.

Figure 11: How Important Is Location of Where the Test Is Processed (in Other Words, at the Genomic Health Facility vs. a Reference Lab or Hospital Lab)?



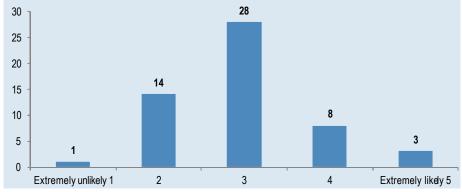
Source: J.P. Morgan Research Survey.

Willingness to convert away from Oncotype DX

An important factor in the market will be how sticky market share is with Oncotype DX having a dominant share. We asked physicians how willing they would be to convert away from Oncotype DX to Symphony/Mammaprint or Prosigna and the

majority of the physicians were unsure, with 28 (52%) responding with a score of 3 out of 5 which is directly in the middle of extremely likely and extremely unlikely, suggesting uncertainty.

Figure 12: How Likely Would You Be to Switch from Oncotype to Either Symphony/MammaPrint or NanoString's Prosigna Test? Please Use a Scale of 1-5 Where 1=Extremely Unlikely and 5=Extremely Likely.



Source: J.P. Morgan Research Survey.

We asked the physicians a follow-up question to explain their choice to the question with the majority citing familiarity with Oncotype DX as a reason to not convert away from it. The full responses are below.

Figure 13: Please Explain Briefly the Reasons Behind Your Choice Above

···g··································
familiarity is big.
needs to ensure available to my uninsured population first
due to the compelling data
More accurate with less of an indeterminate group
unlikely unless randomised trial
will depend upon depth of data
Comfortable w other assays
oncotype dx has more supporting research
will depend on hopsital's protocol
know and understand Oncotype
I don't know
more familiar with Oncotype
if the data supports its use and if leaders in the field are using it, I will use it too
happy with oncotype
Would need a compelling reason to do so, wouldn't switch without a good reason to do so.
currently happy with oncotype. would need more evidence to switch
i think the pt cohorts and study designs are different in the trials, favoring oncotype
familiarity vs. the unknown
Unsure
i am not bound to any particular brand. i prefer to use the most innovative and cost-effective test
happy with what we have
FDA approval
Source: J.P. Morgan Research Survey.

Figure 14: Please Explain Briefly the Reasons Behind Your Choice Above (Continued)

Need to have more information

better predictive power

It us not easy to collect samples

If more info

I have good follow up and acceptance of OncoType

Better subtyping as long as this is supported as prognostically important in prospective studies.

the validation studies are important with Oncotype DX

if cost for these tests are low we will switch to less expensive test

Per NCCN guidelines all test provide somewhat comparable guidelines and its just the matter fo which one you are comfortable with

need to learn more

If there is reimbursement for pt and I gain experience with tests and develop a comfort level of their accuracy and utility

- I would not hesitate to use

I would like to see data showing a real improvement in outcomes with the use of any competitor's test.

At this point - probably not likely, unless there was cost savings, better outcomes, or mandate from payors to use test.

Have a lot of comfort with oncotype that would need to develop with prosigna

I need literature supporting the switch

need more studies

Newly approved test may be more costly to the patients.

Would depend on pathology department. They have specific flow they follow for breast pts. Any practice changes would need to be multidisciplinary decision & backed by hospital.

Unlikely at this time. I would like to see more data.

Adds more prognostic information than Oncotype DX

Require comparative studies or clearly better outcomes

FDA approval esp since over time some low risk pts who decide against chemo will relapse

Easier to perform. Wider panel

I think Symphony is preferable every time vs Oncotype, Prosigna not sure yet, but hopefully yes

Supportive clinical studies

I am comfortable with Oncotype DX and would have to see some comvincing evidence that Prosigna is better before I make the switch. I think Mammaprint requires fresh tissue so it is more difficult to arrange testing.

Need prospective data.

I'm comfortable with oncotype

Molecular sub typing likely to become standard of care

I assume these 3 tests are equally effective in predicting recurrent rate.

I like symphony because you can use it with ER- disease. It's only recently been availae for paraffin embedded tissue so I don't have as much experience with it as OncotypeDx

We would require better cooperation with insurers and longer followup experience either directly or via colleagues Need FDA approval, insurance coverage, NCCN guideline endorsement

Note: These survey comments have been reproduced in their original form and have not been edited. Survey comments should not be attributed to J.P. Morgan and are not necessarily representative of its views.

Source: J.P. Morgan Research Survey.

Financial Outlook

Longer-term revenue growth to be driven by Diagnostics

From 2012 to 2016E, we project a revenue CAGR of 52% as NanoString grows revenue from \$23M to \$122M. While we are expecting strong growth in the Life Sciences business over this time (CAGR of 27%), the primary driver of the growth should be the Diagnostics business which we expect to grow from zero revenue in 2012 to \$61M in 2016E with Prosigna having US/OUS revenues of \$37M/\$24M.

140 \$122M 120 100 \$87M 80 \$58M 60 40 \$29M \$23M 20 0 2012 2015E 2013E 2014E 2016E ■ Life Sciences ■ Diagnostics

Figure 15: Revenue Growth Breakout

Source: Company data and J.P. Morgan estimates.

In the Life Sciences business, growth will be primarily driven by increasing consumable pull-through, with consumables growing from \$12M in 2012 to \$35M in 2016E, as instruments grow from \$9M in 2012 to \$21M in 2016E. For the nCounter installed base, we forecast 391 at the end of 2016, up from 127 at the end of 2012.

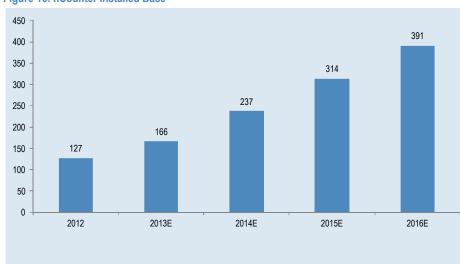
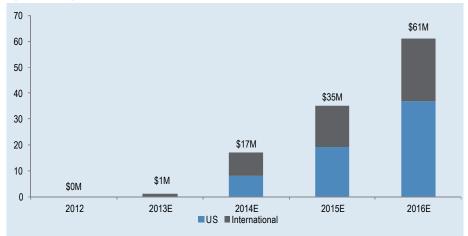


Figure 16: nCounter Installed Base

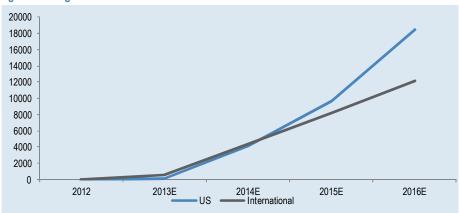
Diagnostics revenue primarily will be driven by U.S. sales which we project to grow from no revenue in 2012 to \$37M in 2016E while International also should show strong growth, increasing from no revenue in 2012 to \$24M in 2016E. For test volume, we forecast U.S. volume increasing from no tests in 2012 to 18,444 performed in 2016 and international volumes increasing from no tests in 2012 to 12,096 tests performed in 2016.

Figure 17: Diagnostics Revenue



Source: Company data and J.P. Morgan estimates.

Figure 18: Diagnostics Test Volume



Source: Company data and J.P. Morgan estimates.

Progression towards profitability

While NanoString's management team has suggested the company could reach full year profitability in 2016, we have taken a more conservative approach and model the company to be profitable in 2018. We model significant GM expansion in the next few years as high-margin consumables become a larger part of the Life Sciences revenue mix and Prosigna, which will carry substantially higher GMs than the Life Sciences business, begins to contribute meaningful revenue. We model SG&A to tick up in 2013, as the company adds to the sales force (currently 33 reps).

J.P.Morgan

Figure 19: NanoString's Margin Progression

	2012A	2013E	2014E	2015E	2016E
Gross Profit	46.4%	49.5%	59.4%	65.4%	69.1%
SG&A	67.1%	115.6%	99.3%	64.7%	51.6%
R&D	51.2%	57.2%	39.1%	26.7%	24.0%

Source: Company data and J.P. Morgan estimates.

Sensitivity analysis

As much of the revenue growth depends on how quickly ProSigna gains market share, we thought it would be useful to do a sensitivity analysis on how different market share levels in the U.S. breast cancer market could impact the company's forecast revenue in the year 2020.

Figure 20: Sensitivity Analysis

2020 U.S. Diagnostics Revenue 2020 Diagnostics Revenue 2020 Total NSTG Revenue

			U.S. Walk	Ver Silaie			
5%	10%	15%	20%	25%	30%	35%	40%
\$14M	\$29M	\$43M	\$57M	\$71M	\$86M	\$100M	\$114M
\$63M	\$77M	\$92M	\$106M	\$120M	\$134M	\$149M	\$163M
\$162M	\$177M	\$191M	\$205M	\$219M	\$234M	\$248M	\$262M

IIS Market Share

Source: J.P. Morgan estimates.

Use of IPO proceeds

The company plans to use the proceeds of the IPO (~\$55M) primarily to support the launch of Prosigna in the U.S. Management feels the test is highly differentiated and wants to be in a position to fully capitalize on the commercial opportunity once the test is approved. Along with the commercialization of Prosigna, some of the proceeds will also be used to complete the development of the Gen3 system which will come in at a lower price point than the current nCounter level and open up a much larger addressable market. In order to capitalize on the new system, the company plans to devote some capital to expand the sales force.

Valuation

At current levels, NSTG has favorable risk/reward, in our view, and we see room for expansion as the company rapidly grows revenues following the expected approval of ProSigna by early 2014. Our December 2014 price target for NSTG is \$14.

Our preferred valuation metric is discounted cash flow of our base-case assumptions, though we sanity check this value against peers (relative valuation).

Absolute valuation

Our 2014 price target of \$14 is derived from 10-year discounted cash flow analysis, with a CAPM-derived WACC discount rate of 7.7% and terminal growth of 2.5% (see Figure 24). We show sensitivity analysis for the company's equity on both WACC and the terminal growth rate, the two most subjective metrics of the analysis.

Relative valuation

For relative valuation, we use a combination of Life Sciences and Diagnostics companies as the peer group and use an EV/Sales metric, as most companies (NSTG included) are early stage and do not have positive EBITDA. On a 2014 EV/Sales basis, NanoString currently trades at a 36% discount to its peer average.

Our December 2014 price target of \$14 implies a 5.4x EV/Sales multiple on 2014 estimates, a 50% premium to the group which we believe is justified given NanoString's above-peer growth rate (52% CAGR from 2012 to 2016E).

Figure 21: NanoString Comp Table

		Price	Mkt Cap	EV		EV/S	ales		1	EV/EBITD	A		Revenue	Growth	
Company	Ticker	7/18/13	SM	\$M	2012A	2013E	2014E	2015E	2012A	2013E	2014E	2012A	2013E	2014E	2015E
Group 1															
AFFYMETRIX INC	AFFX	\$4.34	309	456	1.5x	1.4x	1.4x	1.4x	N/A	12.1x	10.4x	11%	8%	2%	1%
CEPHEID INC	CPHD	\$34.71	2,329	2,235	6.7x	5.8x	5.0x	4.1x	164.4x	126.6x	46.6x	19%	16%	18%	21%
FLUIDIGM CORP	FLDM	\$16.89	429	349	6.7x	5.4x	4.4x	3.9x	N/A	N/A	N/A	22%	23%	24%	13%
GENOMIC HEALTH INC	GHDX	\$35.36	1,068	969	4.1x	3.7x	3.3x	2.9x	69.7x	146.6x	73.4x	14%	11%	13%	13%
GENMARK DIAGNOSTICS INC	GNMK	\$9.97	327	276	13.5x	9.3x	6.7x	4.2x	N/A	N/A	N/A	309%	45%	39%	60%
LUMINEX CORP	LMNX	\$23.27	968	914	4.5x	4.1x	3.7x	3.3x	24.6x	20.0x	16.6x	10%	11%	11%	13%
MERIDIAN BIOSCIENCE INC	VIVO	\$22.40	929	897	5.0x	4.7x	4.3x	3.7x	15.3x	14.2x	12.4x	10%	8%	9%	15%
MYRIAD GENETICS INC	MYGN	\$31.05	2,473	2,019	3.7x	3.2x	2.8x	2.7x	9.8x	8.3x	7.4x	23%	17%	14%	2%
ORASURE TECHNOLOGIES INC	OSUR	\$5.20	289	201	2.3x	2.1x	1.8x	1.5x	N/A	N/A	N/A	7%	9%	17%	17%
SEQUENOM INC	SQNM	\$4.69	540	519	5.8x	2.6x	1.9x	1.4x	N.	/A	1606.1x	60%	122%	40%	35%
QUIDEL CORP	QDEL	\$29.43	993	989	6.3x	5.4x	4.8x	4.1x	30.8x	20.5x	17.3x	-2%	18%	11%	17%
			All Peer Av	erage:	5.5x	4.3x	3.6x	3.0x	52.4x	56.0x	254.2x	47%	28%	20%	21%
NANOSTRING TECHNOLOGIES INC	NSTG	\$9.50	139	138	6.0x	4.7x	2.4x	1.6x	N/A	N/A	N/A	29%	28%	97%	50%
NST	G Premium	(Discount) to Peer Av	erage:	9%	8%	(34%)	(47%)	N/A	N/A	N/A	(39%)	(1%)	394%	142%
JPMorgan Dec 2014 target price of \$14:					13.7x	10.7x	5.4x	3.6x	N/A	N/A	N/A				
Premium (Discount) to Peer Average at \$14:						147%	50%	21%	N/A	N/A	N/A				

Source: Company data, Bloomberg and J.P. Morgan estimates.

Appendix I: Questions for Management

- How confident are you in FDA approval and what is your view on what timeline is most likely? Is it possible that the 1Q14 launch date proves to be conservative?
- What are your priorities for use of the IPO proceeds?
- Will you see any impact on the competitive landscape as a result of the renewed discussion regarding the regulation of LDTs by the FDA?
- How confident are you that you will be able to report an ROR score? What would the implications be if you are unable to report an ROR score?
- What is the regulatory pathway for sub-typing in the U.S. and can you discuss your plans in that aspect?
- What are your plans with respect to reimbursement in the U.S.?
- What are your expectations for pricing in the U.S. market?
- What are you currently seeing with the mix of purchases vs. reagent rental for nCounter? What do you see as the long-term mix?
- What do you expect your mix of instruments vs. consumables to be in 5 years?

- What do you think Genomic Health's response to the statement that your data is better would be?
- Can you discuss the target labs for your test and how large you believe the addressable market is?
- What is your current relationship with Quest and LabCorp?
- If you reached an agreement with Quest or LabCorp, how long would it take them to get up to speed and trained to run your test?
- How large do you believe the diagnostics sales force needs to be to appropriately compete in this market?
- There is some concern with a decentralized test that the results are not consistent and accurate; how confident are you that this will not be the case with Prosigna?
- You have talked about a next-generation instrument to follow nCounter—can you discuss this and what the most significant modifications are? How much of an increase in R&D is needed to support this?
- How large do you believe the Life Science market is for nCounter in terms of installed base and revenue?
- The larger part of the market which you have discussed is qPCR; what price does nCounter need to be at to compete there?
- When looking into the future, what other assays can we possibly expect to see and when?
- How much of an impact has sequestration had on your business and when do you expect this to normalize?
- What type of metrics should we expect you to report going forward on a quarterly basis?
- What is the timing for profitability? What could accelerate that timing? What could push it farther out?
- When looking at your income statement, what are the biggest variables we should be looking at for sources of leverage?

Appendix II: Financial Model

Figure 22: Income Statement

Income Statement		1QA	2QA	3QA	4QA		1QA	2QE	3QE	4QE				CAGR
USD \$M	2011A	Mar	Jun	Sep	Dec	2012A	Mar	Jun	Sep	Dec	2013E	2014E	2015E	10-15
Molecular Diagnostics	0	0	0	0	0	0	0	0	0	1	1	17	36	N/A
Life Sciences	18	5	6	6	6	23	6	7	7	9	28	41	51	34.1%
Total Revenue	18	5	6	6	6	23	6	7	7	10	29	58	87	49.2%
Gross Profit	8	2	3	3	3	11	3	3	4	5	15	34	57	85.2%
SG&A	(10)	(3)	(3)	(4)	(5)	(15)	(6)	(7)	(9)	(12)	(34)	(57)	(56)	47.5%
R&D	(9)	(2)	(3)	(3)	(3)	(12)	(3)	(4)	(4)	(6)	(17)	(23)	(23)	25.1%
EBITA (Operating Income)	(10)	(4)	(4)	(4)	(5)	(16)	(6)	(8)	(9)	(13)	(36)	(46)	(23)	N/A
EBITDA	(9)	(3)	(3)	(4)	(5)	(15)	(6)	(8)	(9)	(13)	(35)	(45)	(22)	N/A
Pre-Tax Income	(11)	(4)	(4)	(5)	(6)	(18)	(7)	(9)	(9)	(13)	(39)	(47)	(27)	
Income Taxes	0	0	0	0	0	0	0	0	0	0	0	0	0	
Adjusted Net Income	(16)	(5)	(5)	(7)	(8)	(25)	(10)	(10)	(9)	(13)	(42)	(47)	(27)	N/A
Diluted Shares Outstanding	10.4	10.5	10.8	11.4	12.2	11.2	17.2	15.9	19.2	19.8	18.0	21.5	24.3	
GAAP Diluted EPS	(1.56)	(0.52)	(0.50)	(0.57)	(0.63)	(2.23)	(0.56)	(0.60)	(0.49)	(0.68)	(2.34)	(2.20)	(1.13)	
Adjusted Diluted EPS (incl. ESO)	\$ (1.56)	\$ (0.52)	\$ (0.50)	\$ (0.57)	\$ (0.63)	\$ (2.23)	\$ (0.56)	\$ (0.60)	\$ (0.49)	\$ (0.68)	\$ (2.33)	\$ (2.18)	\$ (1.11)	
Gross Margin	45.1%	41.0%	43.9%	48.9%	50.3%	46.4%	49.2%	46.8%	50.9%	50.6%	49.5%	59.4%	65.4%	8.7%
change in gross margin (y/y, bp)	+2289	-70	-532	+509	+533	+137	+821	+293	+202	+28	+308	+992	+600	
SG&A	53.5%	70.3%	54.7%	69.1%	74.3%	67.1%	107.9%	103.7%	121.1%	124.3%	115.6%	99.3%	64.7%	
R&D	50.5%	48.8%	50.0%	51.1%	53.9%	51.2%	53.9%	61.0%	54.1%	58.9%	57.2%	39.1%	26.7%	
Operating Margin	-59.0%	-78.1%	-60.8%	-71.4%	-77.9%	-71.8%	-112.6%	-117.9%	-124.3%	-132.7%	-123.4%	-79.3%	-26.4%	16.8%
change in op margin (y/y, bp)	+5162	-596	-1365	-1253	-1876	-1284	-3447	-5707	-5298	-5479	-5157	+4408	+5286	
EBITDA Margin	-50.8%	-67.4%	-52.5%	-63.2%	-71.4%	-63.6%	-105.4%	-112.3%	-119.5%	-129.5%	-118.5%	-77.6%	-25.3%	15.4%
Tax Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Profit Margin	-90.9%	-120.0%	-91.1%	-108.4%	-119.0%	-109.2%	-169.1%	-141.8%	-130.1%	-137.3%	-142.8%	-81.3%	-31.2%	22.9%
Reported Revenue Growth y/y	51.7%	3.6%	21.8%	55.0%	38.6%	29.1%	26.1%	13.4%	18.8%	50.8%	27.9%	96.6%	49.9%	

Figure 23: Balance Sheet and Cash Flow

Figure 23: Balance Sheet and Cash Flov	N													
Balance Sheet and Cash Flow		1QA	2QA	3QA	4QA		1QA	2QE	3QE	4QE				CAGR
USD \$M	2011A	Mar	Jun	Sep	Dec	2012A	Mar	Jun	Sep	Dec	2013E	2014E	2015E	10-15
Balance Sheet														
Cash + ST Investments	11	14	9	5	22	22	12	59	50	34	34	15	22	
Receivables	3	3	4	4	3	3	4	4	5	6	6	12	13	
Inventories	3	4	4	4	5	5	5	4	4	7	7	11	13	
Current Assets	19	22	19	16	32	32	24	70	61	49	49	41	51	
PP&E	5	5	4	4	4	4	3	3	3	3	3	3	4	
Non-Current Assets	6	5	5	4	6	6	6	6	5	5	5	6	6	
Accounts Payable	2	2	2	2	3	3	2	2	2	4	4	7	8	
Current Liabilities	7	6	6	9	12	12	11	8	8	9	9	12	13	
Long-Term Debt	1	7	7	7	10	10	9	13	13	13	13	48	83	
Non-Current Liabilities	6	13	12	12	12	12	15	19	19	19	19	54	89	
Shareholders Equity	12	8	5	0	13	13	3	49	40	26	26	(19)	(45)	
Net Cash (Debt)	9	6	2	(2)	9	9	(1)	46	37	21	21	(33)	(60)	
pershare	0.87	0.59	0.16	(0.20)	0.73	0.79	(0.06)	2.90	1.92	1.07	1.18	(1.51)	(2.48)	
Net Debt/EBITDA	1.0x	0.7x	0.2x	-0.2x	0.6x	0.6x	-0.1x	2.1x	1.4x	0.6x	0.6x	-0.7x	-2.8x	
Cash Conversion Cycle (days)	75	119	105	123	113	118	157	115	121	118	130	121	115	
Cash Flow														
Cash Flow from Operations	(11)	(3)	(4)	(4)	(4)	(15)	(9)	(7)	(9)	(15)	(40)	(53)	(26)	N/A
Capex	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(1)	(2)	-2.2%
Cash Flow from Investments	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(1)	(2)	
Sale (Repurchase) of Equity	20	0	0	0	15	15	0	54	0	0	54	0	0	
Issuance (Reduction) of Debt	0	6	(0)	(0)	5	11	(0)	0	0	0	(0)	35	35	
Dividends Paid	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cash Flow from Financing	20	6	(0)	0	20	26	(1)	54	0	0	53	35	35	
Free Cash Flow	(13)	(3)	(4)	(4)	(4)	(15)	(9)	(7)	(9)	(16)	(41)	(54)	(28)	N/A
FCF Per Share	(1.29)	(0.29)	(0.40)	(0.36)	(0.31)	(1.36)	(0.53)	(0.43)	(0.49)	(0.78)	(2.27)	(2.51)	(1.14)	
FCF Growth y/y														
Dividend per Share	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Figure 24: Discounted Cash Flow Analysis

Target Period: Dec 2014												
Projected FY Ending Dec	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Revenue (\$M) growth y/y	29	58 97%	87 50%	122 40%	156 28%	180 16%	201 12%	223 11%	244 10%	266 9%	284 7%	300 6%
EBIT (\$M)	_ (36) _	(46)	(23)	(9) _	(2)	4 _	12 _	20 _	31 _	42 _	48 _	55
EBIT margin	-124%	-79%	-26%	-7%	-2%	2%	6%	9%	13%	16%	17%	18%
Tax-affected EBIT (\$M)	(36)	(46)	(23)	(9)	(2)	2	8	13	20	28	32	36
Free Cash Flow	(40)	(54)	(25)	(15)	(8)	(1)	5	11	18	25	30	34
growth y/y								94%	66%	43%	20%	14%

Discounted		PV of Terminal Value (\$M) at a											Equivalent Terminal				
Cash Flows (\$M)		Perpetual Growth Rate of						Enterp	rise Valu	e (\$M)		EBITDA Multiple (forward 12 mos)					
2015-2024		1.5%	2.0%	2.5%	3.0%	3.5%		1.5%	2.0%	2.5%	3.0%	3.5%	1.5%	2.0%	2.5%	3.0%	3.5%
(17)		387	431	484	552	642		370	414	468	536	625	6.9x	7.7x	8.7x	10.0x	11.7x
(18)		339	374	416	468	534		321	356	398	449	515	6.0x	6.6x	7.4x	8.4x	9.6x
(20)	+	300	328	361	402	452		280	308	342	382	432	5.2x	5.8x	6.4x	7.1x	8.1x
(21)	•	267	290	317	349	388		246	269	296	328	367	4.6x	5.0x	5.5x	6.1x	6.8x
(22)		239	258	280	306	337		216	235	258	284	315	4.0x	4.4x	4.8x	5.3x	5.9x
Net Debt (Cash)														Ter	minal Va	lue	
(\$M)			Equi	ty Value	(\$M)			Equity Value per Share					as a % of Enterprise Value				
		1.5%	2.0%	2.5%	3.0%	3.5%		1.5%	2.0%	2.5%	3.0%	3.5%	1.5%	2.0%	2.5%	3.0%	3.5%
33		338	381	435	503	593		\$15.72	\$17.74	\$20.24	\$23.41	\$27.58	104%	104%	104%	103%	103%
33		289	323	365	417	483		\$13.43	\$15.04	\$16.98	\$19.40	\$22.46	106%	105%	105%	104%	104%
33		248	276	309	349	399		\$11.53	\$12.83	\$14.38	\$16.26	\$18.59	107%	106%	106%	105%	105%
33		213	236	263	295	334		\$9.92	\$10.99	\$12.24	\$13.74	\$15.56	109%	108%	107%	106%	106%
33		184	203	225	251	282		\$8.55	\$9.44	\$10.47	\$11.69	\$13.13	110%	109%	109%	108%	107%
	Cash Flows (\$M) 2015-2024 (17) (18) (20) (21) (22) Net Debt (Cash) (\$M) 33 33 33 33 33	Cash Flows (\$M) 2015-2024 (17) (18) (20) (21) (22) Net Debt (Cash) (\$M) 33 33 33 33 33 33	Cash Flows (\$M) 1.5% (17) 387 (18) 339 (20) 267 (21) 267 (22) 239 Net Debt (Cash) 1.5% 33 338 33 289 33 248 33 213	Cash Flows (\$M) 2015-2024 1.5% 2.0% (17) 387 431 (18) 339 374 (20) 300 328 (21) 267 290 (22) 239 258 Net Debt (Cash) (\$M) Equit 1.5% 2.0% 33 338 381 33 33 289 323 33 248 276 33 213 236	Cash Flows (\$M) 2015-2024 1.5% 2.0% 2.5% (17) 387 431 484 (18) 339 374 416 (20) 300 328 361 267 290 317 239 258 280 Equity Value 1.5% 2.0% 2.5% 33 338 381 435 33 33 289 323 365 34 276 309 33 248 276 309 33 213 236 263	Cash Flows (\$M) 2015-2024 1.5% 2.0% 2.5% 3.0% (17) 387 431 484 552 (18) 339 374 416 468 (20) 300 328 361 402 267 290 317 349 239 258 280 306 Net Debt (Cash) (\$M) (\$M) Equity Value (\$M) 1.5% 2.0% 2.5% 3.0% 33 338 381 435 503 33 38 381 435 503 33 289 323 365 417 34 276 309 349 33 248 276 309 349 33 213 236 263 295	Cash Flows (\$M) 2015-2024 1.5% 2.0% 2.5% 3.0% 3.5% (17) 387 431 484 552 642 (18) 339 374 416 468 534 (20) 300 328 361 402 452 267 290 317 349 388 (22) 239 258 280 306 337 Equity Value (\$M) 1.5% 2.0% 2.5% 3.0% 3.5% 33 338 381 435 503 593 33 38 381 435 503 593 33 38 381 435 503 593 33 38 381 435 503 593 33 38 248 276 309 349 399 33 248 276 309 349 399 33 213 236 263 295 334	Cash Flows (\$M) 2015-2024 1.5% 2.0% 2.5% 3.0% 3.5% (17) 387 431 484 552 642 (18) 339 374 416 468 534 (20) 300 328 361 402 452 (21) 267 290 317 349 388 (22) 239 258 280 306 337 Equity Value (\$M) Equity Value (\$M) 33 338 381 435 503 593 33 33 289 323 365 417 483 33 248 276 309 349 399 33 213 236 263 295 334	Cash Flows (\$M) 2015-2024 1.5% 2.0% 2.5% 3.0% 3.5% 1.5% (17) 387 431 484 552 642 370 (18) 339 374 416 468 534 321 (20) 300 328 361 402 452 280 (21) 267 290 317 349 388 246 (22) 239 258 280 306 337 216 Equity Value (\$M) Equity Value (\$M) 1.5% 33 338 381 435 503 593 \$15.72 33 38 381 435 503 593 \$13.43 33 248 276 309 349 399 \$11.53 33 248 276 309 349 399 \$11.53 33 213 236 263 295 334 \$9.92	Cash Flows (\$M) Perpetual Growth Rate of Enterprocessor 2015-2024 1.5% 2.0% 2.5% 3.0% 3.5% 1.5% 2.0% (17) 387 431 484 552 642 370 414 (18) 339 374 416 468 534 321 356 (20) 300 328 361 402 452 280 308 (21) 267 290 317 349 388 246 269 (22) 239 258 280 306 337 216 235 Net Debt (Cash) (\$M) Equity Value (\$M) Equity Value (\$M) Equity Value (\$M) Equity Value (\$M) 1.5% 2.0% 33 338 381 435 503 593 \$15.72 \$17.74 33 289 323 365 417 483 \$13.43 \$15.04 33 248 276 309 349 399 \$11.53 \$12.83 <t< td=""><td>Cash Flows (\$M) Perpetual Growth Rate of Enterprise Value (17) 387 431 484 552 642 370 414 468 398 (20) 300 328 361 402 452 280 308 342 (21) 267 290 317 349 388 246 269 296 (22) 239 258 280 306 337 216 235 258 Net Debt (Cash) (\$M) Equity Value (\$M) Equity Value per sequity Val</td><td> Cash Flows (\$M) 2015-2024 1.5% 2.0% 2.5% 3.0% 3.5% 1.5% 2.0% 2.5% 3.0% 3.5% 1.5% 2.0% 2.5% 3.0% 3.0% 3.5% 1.5% 2.0% 2.5% 3.0% 3.0% 3.0% 3.2% 361 402 452 280 308 342 382 246 269 296 328 239 258 280 306 337 216 235 258 284 280 338 381 435 503 593 333 383 381 435 503 593 333 248 276 309 349 399 333 324 213 236 263 295 334 \$9.92 \$10.99 \$12.24 \$13.74 \$20.24 \$213.24 \$213.24</td><td>Cash Flows (\$M) Perpetual Growth Rate of Enterpise Value (\$M) 1.5% 2.0% 2.5% 3.0% 3.5% (17) 387 431 484 552 642 370 414 468 536 625 (18) 339 374 416 468 534 321 356 398 449 515 (20) 267 290 317 349 388 246 269 296 328 367 (22) 239 258 280 306 337 216 235 258 284 315 Net Debt (Cash) (\$M) Equity Value (\$M) Equity Value (\$M) Equity Value (\$M) Equity Value (\$M) 1.5% 2.0% 2.5% 3.0% 3.5% 2.5% 3.0% 3.5% 2.5% 3.0% 3.5% 3.5% 33 338 381 435 503 593 \$15.72 \$17.74 \$20.24 \$23.41 \$27.58 33 248 276 <t< td=""><td> Cash Flows (\$M)</td><td> Cash Flows (\$M)</td><td> Perpetual Growth Rate of Enterprise Value (\$M) EBITDA Multiple (form 1.5% 2.0% 2.5% 3.0% 3.5% 1.5% 2.0% 2.5% 3.0% 3.5% 1.5% 2.0% 2.5% 2.5% 3.0% 3.5% 1.5% 2.0% 2.5% 2.5% 3.0% 3.5% 1.5% 2.0% 2.5% 2.5%</td><td> Cash Flows (\$M)</td></t<></td></t<>	Cash Flows (\$M) Perpetual Growth Rate of Enterprise Value (17) 387 431 484 552 642 370 414 468 398 (20) 300 328 361 402 452 280 308 342 (21) 267 290 317 349 388 246 269 296 (22) 239 258 280 306 337 216 235 258 Net Debt (Cash) (\$M) Equity Value (\$M) Equity Value per sequity Val	Cash Flows (\$M) 2015-2024 1.5% 2.0% 2.5% 3.0% 3.5% 1.5% 2.0% 2.5% 3.0% 3.5% 1.5% 2.0% 2.5% 3.0% 3.0% 3.5% 1.5% 2.0% 2.5% 3.0% 3.0% 3.0% 3.2% 361 402 452 280 308 342 382 246 269 296 328 239 258 280 306 337 216 235 258 284 280 338 381 435 503 593 333 383 381 435 503 593 333 248 276 309 349 399 333 324 213 236 263 295 334 \$9.92 \$10.99 \$12.24 \$13.74 \$20.24 \$213.24 \$213.24	Cash Flows (\$M) Perpetual Growth Rate of Enterpise Value (\$M) 1.5% 2.0% 2.5% 3.0% 3.5% (17) 387 431 484 552 642 370 414 468 536 625 (18) 339 374 416 468 534 321 356 398 449 515 (20) 267 290 317 349 388 246 269 296 328 367 (22) 239 258 280 306 337 216 235 258 284 315 Net Debt (Cash) (\$M) Equity Value (\$M) Equity Value (\$M) Equity Value (\$M) Equity Value (\$M) 1.5% 2.0% 2.5% 3.0% 3.5% 2.5% 3.0% 3.5% 2.5% 3.0% 3.5% 3.5% 33 338 381 435 503 593 \$15.72 \$17.74 \$20.24 \$23.41 \$27.58 33 248 276 <t< td=""><td> Cash Flows (\$M)</td><td> Cash Flows (\$M)</td><td> Perpetual Growth Rate of Enterprise Value (\$M) EBITDA Multiple (form 1.5% 2.0% 2.5% 3.0% 3.5% 1.5% 2.0% 2.5% 3.0% 3.5% 1.5% 2.0% 2.5% 2.5% 3.0% 3.5% 1.5% 2.0% 2.5% 2.5% 3.0% 3.5% 1.5% 2.0% 2.5% 2.5%</td><td> Cash Flows (\$M)</td></t<>	Cash Flows (\$M)	Cash Flows (\$M)	Perpetual Growth Rate of Enterprise Value (\$M) EBITDA Multiple (form 1.5% 2.0% 2.5% 3.0% 3.5% 1.5% 2.0% 2.5% 3.0% 3.5% 1.5% 2.0% 2.5% 2.5% 3.0% 3.5% 1.5% 2.0% 2.5% 2.5% 3.0% 3.5% 1.5% 2.0% 2.5% 2.5%	Cash Flows (\$M)

Appendix III: Management and Board of Directors

Figure 25: Management

		Compensation (\$)			Owne		Experience
Name / Title	Age	Salary	Bonus	Equity	Shares (#)	Value (%)	
R. Bradley Gray President, CEO and Director	36	\$338,802	\$104,000	\$242,246	12,156,619	4.0%	 President, CEO and member of Board Directors since June 2010 Served in various positions at Genzyme from 2004 to 2010 Prior to Genzyme, served as a healthcare industry management consultant for McKinsey & Co from 2000 to 2004 B.A. in Economics and Management from Oxford University, S.B. in Chemical Engineering from MIT
Mary Tedd Allen, Ph.D. Vice President of Manufacturing	50				1,842,333		 VP of Manufacturing since 2007 VP of Advanced Manufacturing and Development group at Applied Biosystems from 2002 to 2005 Prior to joining NanoString, served as Director of Research and Programs at Washington Technology Center from 2006 to 2007 More than 20 years of experience managing product development and manufacturing groups for both semiconductor and biotech applications B.A. in Chemistry from Mount Holyoke College, Ph.D. in Chemistry from University of Rochester
Joseph M. Beechem, Ph.D. Senior Vice President of Research and Development	55				265,500		 SVP of R&D since April 2012 Prior to NanoString, held various positions including Chief Technology Officer at Life Technologies from 2007 to 2012 Prior to Life Technologies, served as Chief Scientific Officer at Invitrogen from 2000 to 2003 Led an NIH-funded research lab for 11 years as a tenured professor at Vanderbilt University Has authored/co-authored over 100 peer-reviewed papers, named on nearly 30 US patents or applications, and has served on a number of editorial and scientific advisory boards B.S. in Chemistry and Biology from Northern Kentucky University, Ph.D. in Biophysics from The Johns Hopkins University
Wayne Burns Senior Vice President, Operations and Administration	56				3,510,833	1.2%	- SVP, Operations and Administration since October 2012 and CFO from April 2007 to September 2012 - Served as COO and CFO at Action Engine, a developer of a mobile application platform, from 2001 to 2006 - Served as founder and CEO of SafariDog, VP of Operations and CFO of NetPodium, and VP of Business Development at various points from 1999 to 2001 - Served as CFO and VP of Finance for three venture-backed companies from 1990 to 1996 - Spent five years with PricewaterhouseCoopers in the US and Italy - B.A. in Business Administration with a concentration in Accounting from the University of Washington

Source: Company reports.

Source: Company reports.

Figure 26: Management (Continued)

			pensation		Ownership	Experience					
Name / Title	Age	Salary	Bonus	Equity	Shares (#) Value (%)						
J. Wayne Cowens, M.D. Chief Medical Officer	65	\$262,500	\$120,000	\$41,168	2,842,000	- Chief Medical Officer since February2011 - Prior to joining the company, served in a series of senior medical positions at Genomic Health from 2004 to 2010, including VP of Clinical Oncology - Prior to Genomic Health, held senior poduct development positions at several pharma companies, including Chiron and Ribozyme Pharmaceuticals and also worked as an oncology consultant to pharma and biotech companies - Licensed medical oncologist and author of 70 scientific abstracts and papers - H.A.B. in Classical Languages and Mathematics from Xavier University, M.S. in Mathematics from Northwestern University, M.D. from Johns Hopkins University					
James A. Johnson Chief Financial Officer	56				2,655,000	 CFO since October 2012 Served as CFO at Relypsa Inc., a privately-held clinical-stage biophama companyfrom 2011 to 2012 Served as Executive VP, CFO, Treasurer and Secretary of ZymoGenetics, Inc., a biopharma company, and various other positions at the company from 2001 to 2011 Served as CFO, Treasurer and Secretary of Targeted Genetics Corporation from 1994 to 2001 Served as VP of Finance at Immunex Corporation from 1988 to 1994 B.A. in Business Administration from the University of Washington 					
Nalini Murdter, Ph.D. Chief Business Officer	54				2,229,000	 Chief Business Officer since April 2010 Prior to NanoString, held various positions at Agilent Technologies, most ecently as Global Product Marketing Manager in the Life Sciences and Chemical Analysis division from 2005 to 2009 Prior to Agilent, served as the Director of Product and Business Development at Adeza Biomedical, a developer of diagnostic tests for pregnancy related and reproductive health disorders Senior Research Fellow at the California Institute of Technology from 1985 to 1990 M.Sc in Chemistry from the Indian Institute of Technology, Kanpur, India, Ph.D. in Biochemistry from the University of Maryland, M.B.A. from the Haas School of Business at University of California, Berkeley SVP & General Manager of Life Sciences since September 2012 and Cief Commercial Officer since September 2010 Prior to NanoString, served as Chief Commercial Officer at Mcrochip Biotechnologies (now 					
Barney Saunders , Ph.D. Senior Vice President & General Manager, Life Sciences	49			2,074,062	- Frior to Mandstring, served as differ commercial Officer at Mctochip Biotechnologies (flow IntegenX) from 2005 to 2010 - Served as General Manager at Agilent Technologies from 2000 to 2004 - Began his career with Amersham International in 2004 where he held a variety of commercipositions in the US and Europe from 1988 to 2000 - B.Sc in Biological Sciences and Ph.D. in Rice Resistance Gene Expession from Birmingham University, England						
Bruce J. Seeley Senior Vice President & General Manager, Diagnostics	49	\$185,385	\$28,000	\$158,150	2,655,000	 SVP and General Manager of Diagnostics since May 2012 Prior to NanoString, served as Executive VP, Commercial, at Seattle Genetics from 2009 to 202 Served in various roles at Genentech, Inc, a biotechnologycompany acquired by Roche, from 2004 to 2009 Served in various positions at Aventis Pharmaceuticals including Senior Director of New Product Commercialization and Licensing for OncologyGlobal Marketing from 2000 to 2004 Prior to Aventis, held various marketing and sales positions at Rhone-Bulenc Rorer and Bristol-Myers Squibb B.A. in Sociology from the University of California at Los Angeles 					

Figure 27: Board of Directors

		Committee		
Name / Title	Audit	Govern.	Comp.	Experience
William D. Young Chairman of the Board	Chairman			 Chairman of the Board since January 2010 and a member of the audit committee since November 2011 Serves as a Venture Partner at Clarus Ventures, a health care and life sciences venture capital firm, since 2010 Served as Chairman of the board and CEO of Monogram Biosciences from 1999 to 2009 Joined Genentech in 1980 as Director of Manufacturing and Process Sciences and became VP in 1983 Held various positions in production and process engineering at Eli Lilly & Co. for 14 years prior to joining Genentech Elected to the National Academy of Engineering in 1993 for his contributions to biotechnology B.S. in Chemical Engineering from Purdue University, M.B.A. from Indiana University, Honorary Doctorate of Engineering from Purdue University
R. Bradley Gray President, CEO and Director				- President, CEO, and Director since June 2010 - Served in various positions at Genzyme from 2004 to 2010 - Prior to Genzyme, served as a healthcare industry management consultant for McKinsey & Co from 2000 to 2004 - B.A. in Economics and Management from Oxford University, S.B. in Chemical Engineering from MIT
Jennifer Scott Fonstad <i>Director</i>			Member	- Member of the Board since July 2004 and member of the compensation committee since June 2009 - Serves as a Managing Director at Draper Fisher Jurvetson, a venture capital firm, which she joined in 1997, becoming partner in 1998 - Began her career at Bain & Company - Serves as Chairman of the Somaly Mam Foundation - B.S. in International Economics from Georgetown University, M.B.A. from Harvard Business School
Nicholas Galakatos, Ph.D. <i>Director</i>		Member	Chairman	 Member of the Board, Chairman of the compensation committee, and member of the nominating and corporate governance committee since June 2009 Serves as a Managing Director of Clarus Ventures, which he co-founded in 2005 Began his venture capital career at Venrock Associates from 1992 to 1997 and then a MPM Capital since 2000 Has founded multiple biopharmaceutical companies B.A. in Chemistry from Reed College, Ph.D. in Organic Chemistry from MIT, performed postdoctoral studies at Harvard Medical School

Figure 28: Board of Directors (Continued)

Committees									
Name / Title	Audit	Govern.	Comp.	Experience					
Finny Kuruvilla , M.D., Ph.D. <i>Director</i>				 Member of the Board of Directors since November 2011 and member of the Scientific Advisory Board since 2009 Principal of Clarus Ventures, which he joined in 2008 Worked as a research fellow at the Broad Institute of Harvard and MIT from 2004 to 2008 From 2003 to 2007, completed residency and fellowship at the Brigham & Women's Hospital and Children's Hospital Boston B.S. in Chemistry from MIT, M.D. from Harvard Medical School, Ph.D. in Chemistry and Chemical Biology from Harvard University 					
Gregory Norden Director	Member			 Member of the Board and chairman of the audit committee since July 2012 From 1989 to 2010, held various senior positions with Wyeth/American Home Products, most recently as Wyeth's SVP and CFO Prior to those roles, he was Executive VP and CFO of Wyeth Pharmaceuticals Served on the board of WelchAllyn, a leading global provider of medical diagnostic equipment, and is a former director of Human Genome Sciences M.S. in Accounting from Long Island University - C.W. Post, B.S. in Management/Economics from the State University of New York - Plattsburgh 					
Charles P. Waite Director	Member	Member	Member	 Member of the Board since July 2004 and member of the audit committee, compensation committee, and nominating and corporate governance committee since June 2009 Served as a General Partner of OVP Venture Partners II and VP of Northwest Venture Services Corp since 1987, and held various other General Partners positions Prior to joining OVP, held a General Partner position at Hambrecht & Quist Venture Partners from 1984 to 1988 A.B. in history from Kenyon College, M.B.A. from Harvard University 					

Source: Company reports.

NanoString: Summary of Financials

Income Statement - Annual	FY12A	FY13E	FY14E	FY15E	Income Statement - Quarterly	1Q13A	2Q13E	3Q13E	4Q13E
Revenues	23	29	58	87	Revenues	6A	7	7	10
Cost of products sold	(12)	(15)	(23)	(30)	Cost of products sold	(3)A	(4)	(4)	(5)
Gross profit					Gross profit	-	-	-	-
SG&A	(15)	(34)	(57)	(56)	SG&A	(6)A	(7)	(9)	(12)
R&D	(12)	(17)	(23)	(23)	R&D	(3)A	(4)	(4)	(6)
Operating income	(16)	(36)	(46)	(22)	Operating income	(6)A	(8)	(9)	(13)
EBITDA	(15)	(35)	(45)	(21)	EBITDA	(6)A	(8)	(9)	(13)
Net interest (income) / expense	(1)	(1)	(3)	(6)	Net interest (income) / expense	(0)A	(0)	(0)	(0)
Other income / (expense)	-	-	-	-	Other income / (expense)	-	-	-	-
Income taxes	0	0	0	0	Income taxes	0A	0	0	0
Net income	(33)	(45)	(47)	(27)	Net income	(8)	(11)	(9)	(12)
Diluted shares outstanding	-	. ,	. ,	` -	Diluted shares outstanding	-	. ,	-	. ,
Diluted EPS	-	_	-	-	Diluted EPS	-	-	-	-
Balance Sheet and Cash Flow Data	FY12A	FY13E	FY14E	FY15E	Ratio Analysis	FY12A	FY13E	FY14E	FY15E
Cash and cash equivalents	22	34	15	22	Sales growth	29.1%	27.9%	96.6%	49.9%
Accounts receivable	3	6	12	13	EBIT growth	57.2%	119.6%	25.9%	(50.8%)
Inventories	5	7	11	13	EPS growth	-	-	-	
Other current assets	1	2	2	2	-				
Current assets	32	49	41	51	Gross margin	-	-	-	-
PP&E	-	-	-	-	EBIT margin	(71.8%)	(123.4%)	(79.3%)	(26.4%)
Total assets	34	52	44	54	EBITDA margin	(63.6%)	(118.5%)	(77.6%)	(25.3%)
					Tax rate	0.0%	0.0%	0.0%	0.0%
Total debt	13	13	48	83	Net margin	(142.0%)	(154.1%)	(81.3%)	(31.2%)
Total liabilities	24	28	66	102					
Shareholders' equity	13	26	(19)	(45)	Net Debt / EBITDA	61.2%	61.1%	(72.5%)	(275.2%)
					Net Debt / Capital (book)	(200.2%)	(410.9%)	247.9%	396.8%
Net income (including charges)	(18)	(39)	(47)	(27)					
D&A	2	1	1	1	Return on assets (ROA)	(122.8%)	(105.5%)	(97.9%)	(55.5%)
Change in working capital	(0)	(5)	(8)	(1)	Return on equity (ROE)	(262.0%)	(227.4%)	(1339.0%)	83.8%
Other	Ó	Ì	Ó	Ó	,	, ,	,	,	
Cash flow from operations	(16)	(41)	(54)	(28)	Enterprise value / sales	-	-	-	-
•	,	` ,	` ,	` ,	Enterprise value / EBITDA	-	-	-	-
Capex	(0)	(1)	(1)	(2)	Free cash flow yield	-	-	-	-
Free cash flow	(16)	(42)	(55)	(29)	•				
Cash flow from investing activities	(0)	`(1)	`(1)	(2)					
Cash flow from financing activities	26	53	35	35					
Dividends	0	0	0	0					
Dividend yield	-	-	-	-					

Source: Company reports and J.P. Morgan estimates.

Note: \$ in millions (except per-share data). Fiscal year ends Dec

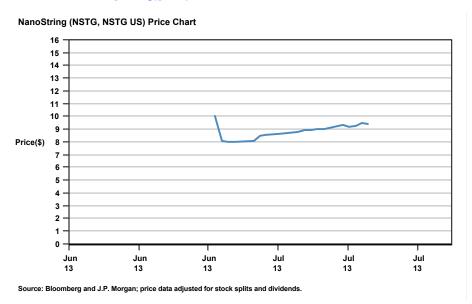
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	(buy)	(hold)	(sell)
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