

1 Laurence M. Rosen, Esq. (SBN 219683)
2 **THE ROSEN LAW FIRM, P.A.**
3 355 South Grand Avenue, Suite 2450
4 Los Angeles, CA 90071
5 Telephone: (213) 785-2610
6 Facsimile: (213) 226-4684
7 Email: lrosen@rosenlegal.com

8 Lead Counsel for Plaintiff

9 **UNITED STATES DISTRICT COURT**
10 **CENTRAL DISTRICT OF CALIFORNIA**

11 VICKY NGUYEN, Individually and on
12 behalf of all others similarly situated,

13 Plaintiff,

14 v.

15 ENDOLOGIX, INC., JOHN
16 MCDERMOTT, and VASEEM
17 MAHBOOB,

18 Defendants.

Case No: 2:17-cv-00017-AB-PLA

**SECOND AMENDED CLASS
ACTION COMPLAINT¹ FOR
VIOLATION OF THE FEDERAL
SECURITIES LAWS**

CLASS ACTION

Hon. André Birotte Jr.

JURY TRIAL DEMANDED

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20 Lead Plaintiff Vicky Nguyen, (“Plaintiff”), by and through her undersigned
21 attorneys, alleges the following upon information and belief, except as to those
22 allegations concerning Plaintiff, which are alleged upon personal knowledge.
23 Plaintiff’s information and belief is based upon, among other things, her counsel’s
24 investigation, which included without limitation: (a) review and analyses of
25 regulatory filings made by Endologix, Inc. (“Endologix” or the “Company”), with
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27 ¹ A redlined draft showing the changes between the instant Second Amended
28 Complaint and the First Amended Complaint is attached hereto as Exhibit 1.

1 the United States Securities and Exchange Commission (“SEC”); (b) review and
2 analysis of press releases, conference calls and media reports issued and
3 disseminated by Endologix; (c) investigative interviews with former employees of
4 Endologix having first-hand knowledge of the Company’s operations; (c)
5 consultation with an expert in preclinical and clinical trials and U.S. Food & Drug
6 Administration (“FDA”) procedures, FDA regulations and guidelines; (d) review of
7 other publicly available information, including information on the FDA web site,
8 medical journals, analyst reports and advisories about the Company, and information
9 readily obtainable on the Internet. Plaintiff believes that substantial evidentiary
10 support will exist for the allegations set forth herein after a reasonable opportunity
11 for discovery.

12 **NATURE OF THE ACTION**

13 1. This is a federal securities class action on behalf of a class consisting of
14 all persons and entities other than Defendants who purchased or otherwise acquired
15 the publicly traded securities of Endologix between May 5, 2016 and May 18, 2017,
16 both dates inclusive (the “Class Period”). Plaintiff seeks to recover compensable
17 damages caused by Defendants’ violations of the federal securities laws and to pursue
18 remedies under Sections 10(b) and 20(a) of the Securities Exchange Act of 1934 (the
19 “Exchange Act”) and Rule 10b-5 promulgated thereunder.

20 2. Endologix is a medical device company that manufactures medical
21 devices used to treat abdominal aortic aneurysms, a serious medical condition that
22 can result in death if the aneurysm is untreated or treated improperly.

23 3. Endologix’s future growth prospects and its primary selling point to
24 investors rested squarely on a device called Nellix. Unlike other devices to manage
25 aneurysms which are based on the principle of repairing the aneurysm, Nellix seals
26 the aneurysm sac. Nellix was touted by Endologix as eliminating the risks and
27 complications posed by traditional aneurysm repair devices: namely endoleaks (i.e.

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1 blood leaking back into the aneurysm sac) and device migrations (i.e. the device
2 moving from its initial placement).

3 4. Not only would Nellix be the first device of its kind but Endologix
4 intended it to be a “one size fits all device” that could be used to treat every patient
5 anatomy. Nellix’s ability to be used to treat patients with even complex anatomies
6 was critical to its commercial appeal. As one JP Morgan analyst stated, “Nellix has
7 demonstrated the potential to address this unmet need [of treating patients with
8 complex anatomies]. In the EVAS Global Registry 35% of patients treated with
9 Nellix had complex anatomies, *including many who would not have been able to be*
10 *treated endovascularly otherwise.*” (emphasis added).²

11 5. Prior to and during the Class Period, Endologix sold Nellix in Europe,
12 where it was approved for use in patients. In fact, by the time the Class Period began
13 Endologix had been selling Nellix in Europe for over three years since February of
14 2013. By the time the Class Period began Defendants possessed a trove of clinical
15 information based upon on the real-world results of thousands of patients in Europe
16 who used Nellix. All of these European patients’ experiences, including
17 complications, adverse events, and doctor complaints were documented in the
18 Company’s comprehensive database and were scrupulously analyzed and studied by
19 Defendants.

20 6. In order to market Nellix in the United States Endologix would need
21 FDA premarket approval. Premarket approval is the most stringent application to the
22 FDA to market a device and requires valid scientific evidence to satisfy the FDA that
23 the device is safe and effective. To that end, Endologix sought and received approval
24 to begin a clinical trial for Nellix which began in January 2014. In May of 2016,
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27 ² JP Morgan analyst report dated August 6, 2015 “Upgrading to OW; Time Is Finally
28 Right to Play the Nellix Opportunity.”

1 Endologix told investors that it had submitted positive clinical data to the FDA as part
2 of the premarket approval process for Nellix.

3 7. In addition to the clinical data that Endologix submitted to the FDA from
4 its two clinical studies, which together consisted of less than 500 patients, FDA
5 regulations required that Endologix provide to the FDA all of the data and
6 information from its commercial marketing experience with Nellix in Europe,
7 including all adverse event reports and complaints by doctors and patients in
8 connection with Endologix's PMA application.

9 8. By August of 2016 Nellix had been used in over 6,000 patients and by
10 November 2016 that number rose to 7,000. Because Endologix could not sell Nellix
11 in the U.S. 6,500 of those 7,000 patients were patients in Europe who received Nellix
12 through the commercial channel in Europe. The experience of these 6,500 patients
13 who were implanted with Nellix, and any reports of adverse events or complaints
14 from these patients were required to be disclosed to the FDA and were relevant to and
15 would be considered by the FDA in determining whether Nellix was safe and could
16 therefore be approved for sale in the U.S. *See* 21 C.F.R. 814.20(b)(8)(ii). Indeed
17 Defendants stated that the patient data from European patients would be provided to
18 the FDA and serve, along with clinical trial data, as the basis for PMA approval.

19 9. During the Class Period, Defendants flooded investors with rosy results
20 from their clinical findings and repeatedly stated that they were on track to receive
21 FDA approval of Nellix in the U.S. at the end of 2016 or in the early part of 2017. In
22 investor conference calls and press releases Defendants assured investors that
23 everything in the data looked positive and that there was nothing concerning the
24 potential for FDA approval of Nellix and the Company's interactions with the FDA
25 "that's given us heartburn."

26 10. When asked how Nellix was doing in the "direct channel" in Europe,
27 Defendant Mahboob told investors that it was doing "a fantastic performance."

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1 11. The reality was starkly to the contrary. A confidential witness (“CW1”)
2 who is the former head of Aortic Procedure Development at Endologix, personally
3 recruited to work at the Company *specifically* on Nellix *since its inception* by
4 Defendant McDermott (whom he had known personally for thirty years) provides a
5 compelling account of how Defendants were well aware of, indeed consumed with, a
6 serious and unsolvable problem with the Nellix device since the beginning of 2015.

7 12. By late 2015 the serious problem of Nellix and migration became a
8 consuming issue throughout the Company. The Nellix device would migrate, or
9 move, from its initial placement in the patient, a complication which significantly
10 increased the risk of catastrophic consequences.

11 13. The Individual Defendants were briefed weekly and at times daily about
12 the increasing number of complaints from doctors in Europe, where Nellix was
13 actively marketed. These complaints and adverse event reports were documented and
14 were stored in the Company’s thorough complaint database. By October of 2015 it
15 was clear to Defendants that the device was especially dangerous in patients with a
16 lot of thrombus, or blood clotting. Beginning in November 2015 at the latest,
17 McDermott was urged by senior scientists at the Company to issue field safety
18 notices for physicians using Nellix to take field safety corrective action³ and to
19 narrow Nellix’s indications for use (“IFU”) to exclude patients with thrombosis, who
20 Defendants knew were at a high risk for migration, in order to prevent serious
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23 ³ A “Field Safety Corrective Action” is a term defined by the European Commission
24 DG Enterprise and Industry and the FDA as an action taken by a manufacturer to
25 reduce a risk of death or serious deterioration in the state of health associated with the
26 use of a medical device that is already placed on the market. Such actions should be
27 notified via a Field Safety Notice.

28 <https://www.fda.gov/OHRMS/Dockets/dockets/06d0011/06d-0011-gdl0001-Tab-07.pdf> .

1 adverse events caused by migration. But, notwithstanding the immediate known
2 danger to patients, McDermott simply refused to issue the FSN and narrow the IFU.

3 14. In January 2016, McDermott personally created and oversaw a “task
4 force” at Endologix to address and solve the problem of migration.

5 15. McDermott personally approved the Company’s presentation on Nellix
6 and migration, which was presented at a non-public symposium attended by insiders
7 in London only two months before the beginning of the Class Period.

8 16. While Defendants made every effort to correct the migration problem
9 the Company not only was unable to find a solution but also was unable to find a
10 cause. Defendants intentionally hid this from the market. McDermott continued to
11 refuse to issue field safety notices even after reports from European doctors reached a
12 near-crisis level in March 2016, with the Company’s closest surgical advisor and
13 earliest user of Nellix in Europe telling the Company that the situation was “urgent.”

14 17. McDermott’s refusal to issue the field safety notices and narrow Nellix’s
15 IFU put patients’ lives at risk and was not only illegal but also immoral. When CW1
16 and other senior officials at the Company working on Nellix listened to an investor
17 conference call on May 9, 2016 in which Defendants never mentioned the word
18 migration and described “good feedback” on Nellix from doctors in Europe, they
19 were “shocked and disgusted” and left the Company as a result.

20 18. Defendants’ knowledge of the foregoing rendered all of their statements
21 during the Class Period concerning Nellix’s excellent prospects for FDA approval
22 and Nellix’s fantastic performance in the direct sales channel in Europe materially
23 false and misleading.

24 19. Nellix could not and would not be approved by the FDA consistent with
25 the timeline Defendants were putting out to investors because the inexplicable and
26 frequent incidences of migration rendered the device unsafe.

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1 20. In November of 2016 when the problem of Nellix and migration finally
2 came to the fore Defendants continued to lie to investors, telling them that the
3 incidences of migration were only discovered during a “recent data cut” in patients
4 “with a lot of thrombus” and that in any event there was an easy fix and that this
5 would not alter Nellix’s prospects for FDA approval.

6 21. It was only then that Defendants issued a field safety notice or “Dear
7 Doctor” letter and revised the IFU for Nellix, narrowing it to exclude patients with
8 thrombosis, despite knowing that field safety notice and the revised IFU were
9 necessary and should have been issued *one full year prior*.

10 22. The incidences of migration in the U.S. clinical trial data became
11 painfully obvious to Defendants beginning in January 2015 (a year after the clinical
12 trial began) as one-year post implantation data became available. In fact, the sharp
13 increase in migration between the first and second years of Nellix being implanted in
14 a patient was entirely consistent with Defendants’ real-world experience with patient
15 use of Nellix in Europe.

16 23. The number of patients who received Nellix in Europe far outpaced the
17 number of patients in the U.S. clinical trial given that Nellix had been marketed in
18 Europe since February 2013.

19 24. On November 16, 2016 (less than two weeks after announcing the
20 narrowed IFU) unable to avoid the inevitable, Defendants revealed to investors that
21 because of the severe problems from migration, the FDA had required Endologix to
22 complete another two years of patient follow-up data on its U.S. clinical trial before it
23 would consider approving Nellix. On this news, Endologix’s stock fell \$2.02 per
24 share, or over 20.5%, damaging investors.

25 25. Indeed, the FDA’s request for two-year follow-up data was in response
26 to the evidence that Nellix was migrating and endangering patients’ lives.

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1 26. Because the FDA requires that all adverse event reports be disclosed in
2 the premarket approval application - regardless of whether the adverse events occur
3 in formal clinical trials or in commercial use in Europe - the FDA had to have known
4 about the adverse events of migration occurring in Europe which prompted the FDA
5 to request an additional two-years of safety data from Endologix, delaying premarket
6 approval for years. Defendants admitted on August 2, 2016 that they had submitted
7 the European patient data to the FDA to serve as a basis, along with clinical trial data,
8 in evaluating whether to grant Pre-Market Approval to Nellix.

9 27. Presumably, Defendants followed FDA regulations and disclosed the
10 adverse events in Europe to the FDA. If the FDA was not aware of the adverse event
11 reports in Europe that only meant that Defendants intentionally withheld that
12 damning information from the FDA, thereby submitting an illegal PMA application.

13 28. Additionally, because Defendants knew that because migration was time
14 dependent and incidents of migration drastically spiraled upward at 2 years of the
15 device being implanted, the FDA could not and would not approve Nellix at the end
16 of the two-year clinical studies but would instead request several years of follow-up
17 data.

18 29. Analysts reacted harshly to Defendants' announcement that Nellix
19 would not be approved consistent with the timeline Defendants represented to
20 investors, noting the Company's about-face on the issue of migration, which "in the
21 course of three weeks...has gone from 'its not a big deal' to 'it may end up impacting
22 the business.'"

23 30. Another shoe was yet to drop. On May 17, 2017 Defendants provided
24 an "update" on Nellix and revealed to investors that they would not be seeking FDA
25 approval of the Nellix "first generation" device but instead intended to seek FDA
26 approval of a second generation Nellix device. This would require a confirmatory
27 clinical study and would push potential FDA premarket approval out to the year
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1 2020. On this news, Endologix's share price fell over 36% or \$2.47 per share,
2 damaging investors.

3 **JURISDICTION AND VENUE**

4 31. The claims asserted herein arise under and pursuant to §§10(b) and 20(a)
5 of the Exchange Act (15 U.S.C. §§78j(b) and §78t(a)) and Rule 10b-5 promulgated
6 thereunder by the SEC (17 C.F.R. §240.10b-5).

7 32. This Court has jurisdiction over the subject matter of this action under
8 28 U.S.C. §1331 and §27 of the Exchange Act.

9 33. Venue is proper in this District pursuant to §27 of the Exchange Act (15
10 U.S.C. §78aa) and 28 U.S.C. §1391(b) as Defendants conduct business and operate
11 facilities in this district, and a significant portion of the Defendants' actions, and the
12 subsequent damages, took place within this District.

13 34. In connection with the acts, conduct and other wrongs alleged in this
14 Complaint, Defendants, directly or indirectly, used the means and instrumentalities of
15 interstate commerce, including but not limited to, the United States mail, interstate
16 telephone communications and the facilities of the national securities exchange.

17 **PARTIES**

18 35. Court appointed Lead Plaintiff Vicky Nguyen, as set forth in her PSLRA
19 Certification previously filed with the Court (Dkt. No. 18-2) and incorporated by
20 reference herein, purchased Endologix securities during the Class Period, and
21 suffered damages as a result of the federal securities law violations and false and/or
22 misleading statements and/or material omissions alleged herein.

23 36. Defendant Endologix develops, manufactures, markets, and sells
24 medical devices for the treatment of abdominal aortic aneurysms in the United States
25 and internationally. The Company is incorporated in Delaware and its principal
26 executive offices are located in Irvine, CA. During the Class Period Endologix
27 securities were actively traded on NASDAQ under the ticker symbol "ELGX."

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1 37. Defendant John McDermott (“McDermott”) has served as the
2 Company’s Chief Executive Officer (“CEO”) and as a member of the board of
3 directors of Endologix from May 2008 to the present. McDermott has over 20 years
4 of executive management, sales, marketing and finance experience in the vascular
5 device industry. Prior to joining Endologix, McDermott served as President of Bard
6 Peripheral Vascular, a division of C.R. Bard Inc. Before that McDermott served as
7 the President of Global Sales for C.R. Bard’s vascular surgery and endovascular
8 business.

9 38. Defendant Vaseem Mahboob (“Mahboob”) has served as the Company’s
10 Chief Financial Officer (“CFO”) from October 2015 to the present. Prior to joining
11 Endologix, Mahboob was the Chief Financial Officer of GE Healthcare’s Global IT
12 business. Mahboob received a B.A. in Engineering from Bangalore University and
13 an MBA from the State University of New York, Buffalo.

14 39. Defendants McDermott and Mahboob are collectively referred to
15 hereinafter as the “Individual Defendants.”

16 40. Endologix, McDermott and Mahboob are collectively referred to
17 hereinafter as “Defendants.”

18 41. Each of the Individual Defendants:

- 19 (a) directly participated in the management of the Company;
20 (b) was directly involved in the day-to-day operations of the Company at the
21 highest levels;
22 (c) was privy to confidential proprietary information concerning the
23 Company and its business and operations;
24 (d) was directly or indirectly involved in drafting, producing, reviewing
25 and/or disseminating the false and misleading statements and
26 information alleged herein;

1 (e) was directly or indirectly involved in the oversight or implementation of
2 the Company's internal controls;

3 (f) was aware of or recklessly disregarded the fact that the false and
4 misleading statements were being issued concerning the Company;
5 and/or

6 (g) approved or ratified these statements in violation of the federal securities
7 laws.

8 42. As officers, directors, and controlling persons of a publicly-held
9 company whose common stock is and was registered with the SEC pursuant to the
10 Exchange Act, and was traded on NASDAQ and governed by the provisions of the
11 federal securities laws, the Individual Defendants each had a duty to disseminate
12 accurate and truthful information promptly with respect to the Company's financial
13 condition and to correct any previously-issued statements that had become materially
14 misleading or untrue to allow the market price of the Company's publicly-traded
15 stock to reflect truthful and accurate information.

16 43. Endologix is liable for the acts of the Individual Defendants and its
17 employees under the doctrine of respondeat superior and common law principles of
18 agency as all of the wrongful acts complained of herein were carried out within the
19 scope of their employment with authorization.

20 44. The scienter of the Individual Defendants and other employees and
21 agents of Endologix is similarly imputed to Endologix under respondeat superior and
22 agency principles.

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SUBSTANTIVE ALLEGATIONS

Abdominal Aortic Aneurysms and the Nellix EVAS System

1 45. Endologix is a Delaware corporation with its headquarters and
2 production facilities located in Irvine, California. Endologix develops and sells
3 medical devices used to treat aortic disorders. Its products are intended for the
4 minimally invasive endovascular treatment of abdominal aortic aneurysms (“AAA”),
5 which is caused by Atherosclerosis.

6 46. Atherosclerosis is a disease which causes thickening and hardening of
7 the arteries due to genetics, smoking, high blood pressure and/or high cholesterol
8 damage. Atherosclerosis progresses with age and is estimated to affect 5%-6% of the
9 population over 65.

10 47. Atherosclerosis weakens the walls of the blood vessel, causing the
11 vessel to expand or balloon out. This expansion is known as an aneurysm.
12 Aneurysms are most common in the aorta, the body’s largest artery, which extends
13 from the chest to the abdomen. The abdominal aorta is the segment between the renal
14 arteries and the area where the aorta divides into two iliac arteries which travel down
15 the legs. AAA occurs when a portion of the abdominal aorta bulges into an aneurysm
16 because of a weakening of the vessel wall. This can result in life threatening internal
17 bleeding upon rupture.

18 48. The treatment of AAA is difficult. Open surgical repair has a relatively
19 high immediate mortality rate of about 4%, but if the patient survives the surgery, the
20 repair will last reasonably well with low complication rates and requirement for
21 secondary intervention. The first endovascular aneurysm repair devices- which stand
22 in contrast to open surgical repair- reduced the immediate mortality rate to 1.8%, but
23 were associated with higher complication rates, the need for long-term surveillance
24 and high secondary intervention rates.⁴

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27 ⁴ Endovascular versus Open Repair of Abdominal Aortic Aneurysm, The UK EVAR
28 Trial Investigators NEJM 2010: 362; p. 1863-1871.

1 49. The overall patient mortality rate for a ruptured AAA is approximately
2 80%. Once AAA are diagnosed they require either non-invasive monitoring, or
3 depending on the size and rate of growth of the AAA, either open surgical repair,
4 endovascular repair or endovascular sealing. In addition to the risks, open surgical
5 repair is a highly invasive procedure which requires a large incision, takes two to four
6 hours and requires that the patient remain in the ICU for several days after the
7 procedure. By comparison, the typical endovascular repair or endovascular sealing
8 procedures last one to two hours, are minimally invasive, and allow patients to be
9 discharged within a day or two.

10 50. Endologix estimates that approximately 70% of all AAAs in the U.S. are
11 repaired through endovascular repair and 30% through open surgical repair.

12 51. Endologix's AAA products, which are the sole source of its revenues,
13 are built on one of two systems: (1) the "traditional" minimally-invasive
14 endovascular repair ("EVAR") or (2) the innovative solution for sealing the aneurysm
15 sac, endovascular sealing ("EVAS").

16 52. Endologix estimates that the AAA market potential is \$2.7 billion.

17 53. Endologix's AAA products are medical devices which require FDA
18 approval for marketing in the United States. Endologix's product for endovascular
19 sealing is called the Nellix EVAS System. The Nellix EVAS System is Endologix's
20 innovative solution for sealing the aneurysm sac. The Nellix EVAS System required
21 Premarket Approval ("PMA") before it could be marketed in the United States.

22 54. PMA is the most stringent type of device marketing application required
23 by the FDA. A PMA is an application submitted to the FDA to request approval to
24 market a device. Unlike premarket notification, PMA approval is to be based on a
25 determination by the FDA that the PMA contains sufficient valid scientific evidence
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1 that provides reasonable assurance that the device is safe and effective for its
2 intended use or uses.⁵

3 55. A PMA application is required to contain the device’s indications for
4 use, defined as “[a] general description of the disease or condition the device will
5 diagnose, treat, prevent, cure, or mitigate, including a description of the patient
6 population for which the device is intended. 21 C.F.R. (3)(i).

7 56. A medical device’s “indications for use” or “IFU” dictates the patient
8 population that can be treated with the device. The broader the IFU or patient
9 population that the device can be used in, the greater the potential sales of the device
10 and of course this means greater revenue for the company marketing and selling the
11 device.

12 57. The purpose of the PMA application is to provide the FDA with as much
13 information as possible to evaluate the safety and effectiveness of a device.
14 Specifically, the PMA application submitted to the FDA *must* include the following
15 information: “An identification, discussion and analysis of *any other data,*
16 *information, or report relevant to an evaluation of the safety and effectiveness of a*
17 *device* known to or that should reasonably be known to the application from any
18 source, *foreign or domestic*, including information derived from investigations other
19 than those proposed in application and from commercial marketing experience.” 21
20 C.F.R. 814.20(b)(8)(ii) (emphasis added).

21 _____
22 ⁵ The review of a PMA is a four-step review process consisting of: 1) administrative
23 and limited scientific review by FDA staff to determine completeness (acceptance
24 and filing reviews); 2) in-depth scientific, regulator, and Quality System review by
25 appropriate FDA personnel (substantive review); 3) review and recommendation by
26 the appropriate advisory committee (panel review) and 4) final deliberations,
27 documentation and notification of the FDA decision.

28 See PMA Review Process 21 C.F.R. 814.42 et seq. available at:
<https://www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/HowtoMarketYourDevice/PremarketSubmissions/PremarketApprovalPMA/ucm047991.htm>

1 58. In addition, the PMA application instructions state: “It would be
2 appropriate to include ... a summary of any adverse experiences reported” 21
3 C.F.R. 814.20(b)(3).

4 59. Simply put, the lynchpin of FDA approval is the safety of a device. If a
5 device is shown to be unsafe based on adverse events it is irrelevant where those
6 adverse events occurred or were reported or whether those adverse events did or did
7 not occur in the context of a controlled clinical trial.

8 60. Consistent with the requirements set forth in 21 C.F.R. 814.20(b)(8)(ii),
9 Defendants were required to disclose to the FDA the adverse events and
10 complications with the Nellix EVAS System as well as any patient or doctor
11 complaints that occurred in Europe where Nellix had been marketed since February
12 2013.

13 61. Presumably, Defendants followed the requirements of 21 C.F.R.
14 814.20(b)(8)(ii) and did in fact submit to the FDA the adverse events and
15 complications with the Nellix EVAS System as well as any patient or doctor
16 complaints that occurred in Europe. In the alternative, if Defendants did not do so
17 they intentionally and illegally lied to the FDA by withholding information legally
18 required to be disclosed, thereby submitting a false PMA application.

19 62. If the FDA rejects a PMA, a device manufacturer is always able to
20 reapply for a PMA if it can successfully address the reasons for rejection. Likewise,
21 if a clinical trial fails, a company can always seek to conduct additional trials or
22 modify the device until the product works safely and effectively. However, in
23 practice this means years of delay before the device will be approved for marketing
24 and an even longer delay before commercial sales are achieved.

25 63. In the United States, Endologix markets and sells its products through a
26 direct sales force. The primary customer and decision maker for its products is the
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1 vascular surgeon. Approximately 70% of Endologix’s revenues in the 2015 fiscal
2 year were generated from U.S. sales.

3 64. Endologix also markets and sells its products in Europe, Asia Pacific,
4 South and Central America and Mexico. In 2015 20% of Endologix’s revenues were
5 generated from sales in Europe.

6 65. Endologix’s endovascular sealing or “EVAS” product consists of: (i)
7 bilateral covered stents with endobags, (ii) biocompatible polymer injected in to the
8 endobags to seal the aneurysm and (iii) a delivery system and polymer dispenser.

9 66. Endologix states that its Nellix EVAS product effectively seals the entire
10 aneurysm sac excluding it and thereby reducing the likelihood of future aneurysm
11 rupture, and also has the potential to reduce the need for post-procedural re-
12 interventions. Endologix’s sole EVAS product is the Nellix Endo Vascular
13 Aneurysm Sealing System (the “Nellix EVAS System” or “Nellix”).

14 67. One of the biggest issues with medical devices used for endovascular
15 repair is “endoleaks.” Once a device is placed in a patient with an abdominal
16 aneurysm a leak of blood from above or below the device or from its side branches
17 can occur, requiring re-hospitalization to repair or replace the device.

18 68. Another potential serious adverse event that can occur with medical
19 devices used for endovascular repair is “migration” where the medical device moves
20 or migrates from where it was initially placed.

21 69. Endologix claims that the Nellix EVAS System meets the unmet needs
22 of other endovascular repair systems because it is the only device that is designed to
23 fill the aneurysm space with a biostable polymer and seal the aneurysm sac and
24 prevent leaks, thereby reducing endoleaks and reinterventions.

25 70. Additionally, one of the selling points of Nellix was that it could be used
26 for a broad range of anatomies. For example in a November 20, 2013 investor
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1 conference call Defendant McDermott stated “*we plan to broaden Nellix’s indication*
2 *beyond any of the other endovascular aneurysm devices.*” (emphasis added).

3 71. A broad IFU meant not only increased commercial appeal for the
4 product to investors and consumers but increased market share for Defendants. The
5 more patients with AAA that could use Nellix, the greater the number of units of
6 Nellix Endologix could sell, and the greater the revenue and profits for Endologix and
7 the Individual Defendants.

8 72. Increased commercial appeal for Nellix also meant increased interest in
9 Endologix stock by investors and a higher Company stock price.

10 73. In February of 2013, Endologix received “CE Mark” approval in Europe
11 for the Nellix EVAS System and commenced a limited market introduction in Europe
12 of the Nellix EVAS System. CE marking is a mandatory conformity marking for
13 certain products sold within the European Economic Area. CE marking is the
14 manufacturer’s declaration that the product meets the requirements of the applicable
15 European Commission directives. Unlike FDA approval in the U.S., CE marking
16 indicates that a given product is safe only, whereas FDA approval in the U.S. requires
17 a showing of both safety and effectiveness. Generally, CE marking is thought to be a
18 much quicker, less rigorous process than FDA approval.

19 74. In December of 2013 Endologix received Investigational Device
20 Exemption (“IDE”) approval from the FDA to begin a clinical trial for the Nellix
21 EVAS System. The clinical trial, called the “EVAS Forward IDE” began in January
22 2014, and enrollment in the study was completed in November 2014. By November
23 of 2016 two full years of data from the EVAS Forward IDE was available to
24 Defendants.

25 75. The EVAS Forward IDE consisted of 179 patients at 29 centers in the
26 U.S. and Europe, of which approximately 25 were in the U.S. Each patient would be
27 followed for one year, after which Endologix would submit the final module of the
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1 PMA to the FDA. Endologix received approval to enroll additional patients in the
2 trial in the third quarter of 2015.

3 76. An additional international study, the “EVAS Forward Global Registry”
4 was put in place by Endologix to “provide real world clinical results to demonstrate
5 the effectiveness and *broad applicability* of the Nellix EVAS System.” The registry
6 was designed to include 300 patients enrolled in up to 30 international centers. The
7 first patient in the registry was treated in October 2013 and patient enrollment was
8 complete in September 2014. (Emphasis added). By September of 2016 two full
9 years of data from the EVAS Forward Global Registry was available to Defendants.

10 77. Endologix competes with much larger companies such as Medtronic,
11 and the successful development of a rival EVAS system by competitors was seen as a
12 major risk to Endologix by analysts and investors. Accordingly, Defendants were in
13 a race to make Endologix the first company to receive FDA PMA approval to sell and
14 market an EVAS system, i.e. Nellix, in the United States.

15
16 **Anticipated FDA Approval of the Nellix EVAS System**

17
18 78. Analysts and investors eagerly anticipated the FDA approval and the
19 U.S. launch of the Nellix EVAS System. The Nellix EVAS System was Endologix’s
20 primary selling point to investors leading up to and during the Class Period. For
21 example, an April 1, 2016 JPMorgan analyst report stated “We believe the company
22 could be on the cusp of another significant growth phase as its next-gen platform,
23 Nellix, works toward a possible FDA approval in 2H16. Nellix has the potential to
24 be a disruptive new technology, in our view, introducing the concept of endovascular
25 aneurysm sealing, or EVAS, to the field of AAA repair...Buoyed by Nellix, our
26 model calls for Endologix’s US market share to rise from 14% in 2015 to 18% by the
27 end of the decade, driving a significant reacceleration in the company’s overall top
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1 line growth profile over that period. *We expect Street sentiment to improve as FDA*
2 *approval for Nellix draws closer* and investors gain further visibility into this growth
3 acceleration. As a result, we assign ELGX shares our Overweight rating.”
4 (Emphasis added).

5 79. Analysts again noted the tremendous market opportunity for Endologix
6 given Nellix’s potential to treat complex anatomies, given its broad IFU. An August
7 6, 2015 JP Morgan analyst report states “Combined with its *ability to treat a wider*
8 *range of anatomies* than the traditional EVAR systems, we believe this *clinical*
9 *advantage* gives Nellix the potential to be a disruptive new entrant to the market.”

10 80. In an October 6, 2015 JP Morgan analyst report entitled “Endologix-
11 One to Own in 2016; Nellix US Launch Analysis Reinforced Our Bullish Thesis,” JP
12 Morgan analysts stated: “roughly half of all patients diagnosed with AAA have short
13 necks *or other types of challenging anatomy that make them difficult to treat with*
14 *traditional grafts*. Penetration of this *\$1.6B market opportunity* stands at just 20-
15 25% today, suggesting ample room for market expansion a technologies that more
16 effectively address these patients come to market. *We believe that Nellix can be that*
17 *product*.” In the EVAS FORWARD Global Registry, 35% of patients treated with
18 Nellix had complex anatomies, *including many who would not have been able to be*
19 *treated endovascularly otherwise. Nellix performed admirably in this challenging*
20 *population*.” (Emphasis added).

21 81. As Defendant Mahboob stated, the Nellix EVAS system represented a
22 massive opportunity for Endologix: endovascular sealing purported to mitigate many
23 of the deficiencies of endovascular repair, such as migration (i.e. movement of the
24 device away from location of implant inside the patient’s body, which can result in
25 catastrophic consequences) and endoleaks. As Mahboob stated at the May 5, 2016
26 Deutsche Bank Health Care Conference, “*we’re trying to redefine the entire*
27 *endovascular repair into endovascular sealing as we call it*.” (Emphasis added).

28

1 82. Defendants represented that the Nellix EVAS System was slated for
2 FDA approval in the United States by the fourth quarter of 2016. Discussing the data
3 from the EVAS Forward Global Registry at a May 5, 2016 Deutsche Bank Health
4 Care Conference, Defendant Mahboob stated “the data continues to be spectacular on
5 the Registry. What we realized on the Registry was that our persistent endoleak rate
6 was 1.9%, and by the way, on a pretty broad range of patients, five endoleaks in total,
7 which is unheard of. The competitive rates are up to 10% and we are at 1.9%.”

8 83. With respect to FDA approval Mahboob stated: “we feel pretty good
9 about the timeline that we’ve been putting out consistently for the last six months to
10 eight months, which is that we expect the approval to be in the Q4 to latest Q1
11 timeframe. The one big piece of data is going to be presented at SVS [Society for
12 Vascular Surgery], which is on June 11 here in Boston, is the data for the IDE clinical
13 data, which is going to be presented. And that’s going to happen in June. So again,
14 on track from a PMA milestone perspective for a Q4 approval.” (Emphasis added).

15 84. On May 9, 2016 during Endologix’s First Quarter 2016 investor
16 conference call McDermott misrepresented to investors that things with Nellix were
17 rolling along smoothly, stating “Nellix is doing as expected. No surprises.”
18 Mahboob misled investors to believe that Nellix’s performance in Europe was
19 fantastic.

20 85. Further underscoring the importance of the Nellix EVAS System at the
21 May 10, 2016 Bank of America Merrill Lynch Health Care Conference McDermott
22 touted its uniqueness and advantages:

23
24 And then last but not least is Nellix. ***So, Nellix is really the next-***
25 ***generation platform in aneurysm repair.*** What’s unique about Nellix is
26 it’s the only device that completely fills the aneurysm space and seals
27 the aneurysm. So, the biggest failure mode for these devices is what we
28 call endoleaks. So, that is leaking blood into the aneurysm sac. You’re
trying to seal that aneurysm sac, that pressurized blood flow off the

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aneurysm. If you have a leak it can pressurize the aneurysm sac. The aneurysm can grow and lead to rupture which is what we're trying to prevent. ***By sealing off the entire aneurysm, we can get the lowest rate of endoleaks ever reported, and that's the unique value proposition of Nellix.***

[Emphasis Added]

86. Defendant McDermott went on to discuss the data from the EVAS Forward Global Registry:

Just a little bit of clinical data on Nellix...this is a cut of 18-month data....ACM stands for all-cause mortality. Type II endoleaks, that's an endoleak into the aneurysm sac from side branches and then total endoleak. So if you just look at these categories, that's just getting compared- wasn't a comparative trial but another large post market registry called ENGAGE from Medtronic, not as complex anatomies but it's the best comparison that we have. This is two-year data compared with our 18-month data. So there is a little bit of a time difference. But as you can see, the all-cause mortality rate with Nellix is considerably lower as is the type II endoleak rate and the total endoleak rate. So this is why there's so much interest in Nellix, it really has the potential to be a game changer. In terms of our PMA, as I mentioned, on June 11, the one-year data from our IDE clinical trial would be presented for the first time at the Society of Vascular Surgery Meeting in Washington, D.C. We have already submitted the modules of the PMA and, in fact, last week, got notification from the FDA that they've accepted all the modules, and that have what they need to continue the review. So we'll present that data in about a month, and then ***we expect the PMA approval around the end of this year, first part of next year.*** Our 100-day meeting, which is where we'll find out whether or not we have to go to panel, will occur by the end of July. So, that's kind of the timeline so far. Everything is clipping along nicely.

1 87. Then, on May 26, 2016 Endologix released the purportedly positive
2 results from the Nellix EVAS Forward IDE trial, highlighting the following clinical
3 data:

- 4 • 150 patients in the pivotal cohort were treated at 30 centers in the US
5 and Europe between January and November 2014.
- 6 • 100% procedural technical success achieved.
- 7 • The major adverse event (MAE) rate at 30-days was 2.7%, achieving the
8 primary safety endpoint and comparing positively to the Society for Vascular
9 Surgery (SVS) open surgical repair control group rate of < 56%.
- 10 • At the year, the treatment success rate was 94%, achieving the primary
11 effectiveness endpoint and comparing favorably to the performance goal of >
12 80%.
- 13 • Freedom from all-cause mortality and AAA-related mortality were 96% and
14 99% respectively.
- 15 • Freedom from device related secondary interventions was 96.6%, the highest
16 rate ever reported for an IDE study of an endovascular AAA device.
- 17 • Endoleaks were present in 3.1% of patients at 1-year, the lowest rate
18 ever reported for an IDE study of an endovascular AAA device.

19
20 88. On June 11, 2016, the results of the EVAS Forward IDE Study were
21 submitted to the FDA as part of the Company's PMA submission for the Nellix
22 EVAS System. The Company represented that it remained on track to receive FDA
23 approval for the Nellix EVAS System at the end of 2016 or early 2017.

24 89. Then, on August 2, 2016, with anticipated FDA approval nearing closer,
25 Defendant McDermott announced the Company's results for the second quarter of
26 2016, reiterating the likelihood of forthcoming FDA approval of Nellix in the U.S.
27 and the growth for the Company as a result stating "we remain very positive about
28

1 the likelihood of approval [for Nellix EVAS System] and the significant growth we
2 expect to drive with Nellix.”

3 90. Defendant McDermott also assured investors on the August 2 call that
4 no issues existed with the data from the Nellix EVAS System IDE Study, after the
5 FDA expressed the possibility of referring the Nellix EVAS PMA to Panel Review.⁶
6 Panel review would delay FDA approval by about two fiscal quarters (six months)
7 but does not necessarily affect the issue of whether a device is approvable *per se*.
8 McDermott’s colloquy with investors was, in pertinent part, as follows:

9
10 **Matt Blackman**

11 Okay, that’s very helpful. And I’m going flip in one last question back
12 on the panel. *I’m sure you’re eager to provide the intimate details of*
13 *your FDA discussions...But maybe give us a little bit more color,*
14 *more sense of comfort that there is not something else going on,*
15 *there is no sort of red flag raised in terms of data that they saw. I*
16 *guess, anything that you could give us that, gives us any comfort*
17 *there would be helpful? Thank you.*

18
19 **John McDermott**

20 Sure. So, the three reasons that the agency will typically consider
21 sending a device to panel is one; if there is, any new clinical issues of
22 safety [or] efficacy and obviously *everyone has seen the data so we*
23 *know there aren’t any issues there.* The second reason is if they feel -
24 the FDA feels they don’t have the clinical or technical expertise to
25 complete the review of a PMA, that’s not the case. So and the third is
26 if it’s novel technology.

27
28 ⁶ The FDA may refer the PMA to an outside panel of experts (advisory committee).
In general, all PMAs for the first-of-a-kind device are taken before the appropriate
advisory panel for review and recommendation. However, as soon as FDA believes
that (1) the pertinent issues in determining the safety and effectiveness for the type of
medical device are understood and (2) FDA has developed the ability to address those
issues, future PMAs for devices of that type are not be taken before an advisory panel
unless a particular application presents an issue that can best be addressed through
panel review. 21 C.F.R. 814.44.

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[Emphasis added].

91. Defendant McDermott further went on to provide additional assurance to investors on the August 2 conference call that none of the questions the FDA posed to the Company detracted from the approvability of the Nellix EVAS System, stating in pertinent part:

Joanne Wuensch

Hi. Can we talk a little bit about what type of additional data or questions that you're receiving? I mean, is there any way to give us some information regarding that?

John McDermott

Yes, I don't want to get too detailed with that Joanne. What I can tell you, is that *none of the questions we got asked are what I would characterize as big surprises*. There is clarification on some things, some requests for additional analysis, some additional testing. *Nothing that would suggest in our view any question or risk of approvability, just some more blocking and tackling and clarification of the data we submitted.*

So, we don't see anything in there that's given us heartburn. It will just take a little time to pull it altogether. And we'd also like to take another run at this novelty question and see if we can provide the agency with enough evidence that the device isn't novel so that we don't have to go to panel. So that would be the focus of the work we do over the next few months.

[Emphasis added].

92. On November 1, 2016, during aftermarket hours, the Company held a conference call with investors to discuss the Company's financial results for the quarter ended September 30, 2016. During the November 1 Conference Call,

1 Defendant McDermott touted the Company’s positive interaction with the FDA,
2 stating in pertinent part:

3
4 **John McDermott**

5 In terms of the U.S. PMA, we achieved the clinical endpoints in the
6 IDE share dilated clinical data with FDA. We’ve also provided them
7 with our updated patient selection criteria and **have had positive**
8 **discussion so far**. Nellix PMA approval time lines are unchanged
9 although we think a panel is more likely now given the updated
10 indications.

11 [Emphasis added].

12 *The Nellix EVAS System and Migration*

13 93. The FDA defines migration as a problem with an implanted or invasive
14 device moving within the body, or being completely expelled from the body.⁷

15 94. Migration, if untreated, can result in a type I endoleak (blood flow into
16 the aneurysm sac due to incomplete or ineffective seal at the end of the graft),
17 aneurysm expansion, and rupture as its most catastrophic consequence.⁸

18 95. A 2016 Case report from the United Kingdom warned of the ominous
19 risks of migration of the Nellix EVAS System⁹. The case report cited a 2016
20

21
22 _____
23 ⁷[https://ncit.nci.nih.gov/ncitbrowser/ConceptReport.jsp?dictionary=NCI_Thesaurus&
version=16.10e&code=C62917&ns=NCI_Thesaurus](https://ncit.nci.nih.gov/ncitbrowser/ConceptReport.jsp?dictionary=NCI_Thesaurus&version=16.10e&code=C62917&ns=NCI_Thesaurus)

24 ⁸ Mid and long-term device migration after endovascular abdominal aortic aneurysm
25 repair: A comparison of AneuRx and Zenith endografts, 2005, Journal of Vascular
26 Surgery, Vol. 42, Issue 3, p. 392-401.

27 ⁹ Vasa (2016,) 45(6), 505-07. “Case Report: Nellix stent graft migration after
28 endovascular aneurysm sealing”, George A. Antoniou, Khalid Bashaeb, and Riza
Ibrahim, published Aug. 29, 2016.

1 University of Liverpool study of 18 patients consisting of 35 stent grafts¹⁰. In that
2 study, the migration rate of the Nellix EVAS System was 17% (migration occurred
3 with 6 out of the 35 devices), compared to the 2.3% migration rate reported in the
4 Nellix EVAS IDE Study. The Case report discussed a patient whose aneurysm was
5 treated with the Nellix EVAS System. In that patient, the Nellix EVAS device was
6 explanted after the device migrated 11 mm and the aneurysm sac expanded, with case
7 study authors noting that “in retrospect, we think that earlier intervention should have
8 been undertaken to mitigate the risk of a catastrophic event.”

9 96. The study concluded that “In the absence of a proximal fixation
10 mechanism in EVAS, migration of the Nellix system should represent a more
11 ominous sign, which would complicate a persistent type I endoleak resulting in
12 continued aneurysm growth and inferior translocation of the stents within the
13 aneurysm sac. EVAS has failed to obliterate the long-term complication seen with
14 conventional endovascular treatment...”

15 97. Defendants explained away the ominous findings of the above Case
16 report. Addressing an analyst’s question concerning migration on a June 11, 2016
17 Endologix conference call to discuss the “positive clinical data from the Nellix EVAS
18 Forward-IDE Study” Defendant McDermott stated: “one point about the Liverpool
19 paper as a reminder is they chose to define migration as 4 millimeters which is less
20 than half of the SVS definition and also found the same that we found so far in the
21 IDE at one year, they had no reinterventions or endoleaks or even events related to
22 those imaging findings.”

23 98. The issue of migration with Nellix EVAS System again came up after
24 Endologix told investors in its November 1, 2016 investor conference call, that the
25 FDA requested that Endologix submit “the most recent cut of the data for them to
26

27 ¹⁰ J Vasc Surg. 2016, Aug; 64(2) 306-312 “Migration of the Nellix endoprosthesis”.
28 England A., *et al.*, published Apr. 9, 2016.

1 review,” and that Endologix had changed the Indication For Use (“IFU”) for Nellix
2 EVAS based upon the “updated data cut” that Endologix had recently run. Defendant
3 McDermott stated:

4
5 Regarding Nellix, we’ve recently ran an updated data cut from the IDE
6 clinical database and noticed an increase in migration in aneurysm
7 enlargement in some patients with two-year follow-up. We’re learning
8 that migration can occur in patients with small flow lumens and a lot of
9 thrombus because there isn’t enough space to inject sufficient polymer to
10 support the stents. Our solution is a simple update to the patient’s
11 selection criteria that measures the ratio of aneurysm diameter to the
12 flow lumen to ensure there is enough space for polymer...When we
13 examined the IDE data for patients that fit within this updated selection
14 criteria, we see extremely positive safety and durability results out to
15 two years, which gives us confidence that Nellix can be a leading device
16 in the treatment of abdominal aortic aneurysms.

17
18 99. Presenting the issue of migration with the Nellix EVAS System as a
19 problem that had only recently come to Defendants’ attention, and one with an easy
20 fix, Defendant McDermott went on to emphasize Endologix’s favorable interactions
21 with the FDA and downplayed any concerns regarding migration stating, “we did
22 have a successful clinical study and met the endpoints in the trial. So actually when
23 we interacted with the agency so far on the updated indications, they’ve responded
24 favorably. They had some questions about migration and a curiosity if it was
25 progressive...we really can’t get into any of the data details as this point in time...But
26 what I can tell you is that the re-interventions related to this issue are extremely low.”
27 McDermott also emphasized that the issue of migration was “a very easy situation to
28 address just by narrowing for those particular anatomies” adding that “I think people
are – have given us a lot of credit for being so proactive and getting out ahead of it.
We’ll say there are some physicians who think we’re being a little conservative, but

1 our view is let's be- let's think patient safety first and then we can see some ways to
2 open up this patient criteria moving forward.”

3 100. Finally, McDermott assured investors that “the Nellix PMA approval
4 timelines are unchanged, although we think a panel is more likely now given the
5 updated indications. We estimate the panel meeting will be in April or May, which
6 would lead to a potential PMA approval in the third quarter of 2017.”

7 101. While Defendants portrayed the issue of device migration as no big deal
8 with an easy fix, the reality was starkly to the contrary. And while Defendants claim
9 to have taken note of migration with the Nellix EVAS System based upon running a
10 “recent data cut” the persistent problem of Nellix and migration was not only well-
11 known by Defendants since the beginning of 2015 but it was an intractable,
12 unresolvable problem that plagued Defendants constantly. Additionally, Endologix’s
13 top scientists had urged Defendants to issue the revised IFU at least one year prior,
14 after discovering that Nellix was particularly dangerous in patients with a lot of
15 thrombus. Defendants refused, putting patients’ lives at risk.

16 102. While the clinical studies of Nellix were supposedly going “as
17 expected”, patients in Europe, where Nellix had been sold for over three years, were
18 experiencing serious adverse events.

19 103. Defendants received an abundance of documented evidence showing
20 that Nellix was migrating, or moving from the location where it was implanted in
21 patients’ bodies, which can lead to catastrophic consequences.

22 104. Endologix’s top scientists were singularly focused on this migration
23 problem and were unable to find a solution or a cause. Of course, this had
24 implications for FDA approval of Nellix in the U.S. irrespective of whatever the
25 limited U.S. study showed since the FDA would not approve a device that was
26 fundamentally unsafe. If Nellix was unsafe for European patients it would prove
27 equally unsafe for U.S. patients.

28

1 105. Confidential Witness 1 (“CW1”) is Endologix’s former Director of
2 Research and Development who subsequently became the head of Aortic Procedure
3 Development at Endologix. CW1 was employed at Endologix from January 1, 2011
4 through June 2016. CW1 was personally hired by Defendant McDermott and
5 reported to Chuck Love, Vice President of Clinical Affairs. CW1 explained that he
6 came to work at Endologix because of his relationship with McDermott, whom he
7 had known for 30 years. CW1 explained that McDermott recruited CW1 to work at
8 Endologix, at the Company’s Irvine, CA corporate headquarters specifically to work
9 on Nellix from its inception. CW1 worked on the development of Nellix, including
10 testing and procedures, and stated that he was “a developer, trainer, did clinical trials.
11 I was very involved with Nellix right from the beginning.”

12 106. CW1 described the Company’s push for testing and implementation of
13 the Nellix EVAS System in Europe as being “an exciting time” consisting of a good
14 team effort: “I came because of my relationship with John [McDermott] and he
15 wanted me to help everything get straightened for Europe. That’s trials, approvals,
16 partners, that type of thing.” CW1 stated that he built relationships with doctors
17 throughout Europe, including with Dainis Krievens, a Latvian vascular surgeon who
18 became one of the first users of the Nellix EVAS System. CW1 states that “At first
19 Dainis was reporting very good results, and we were all very encouraged. There were
20 some problems, leakage, very limited migration. Things that caused us to pay
21 attention but completely in line with what you’d expect at that state of the trials.”

22 107. However, CW1 reports that in early 2015 Endologix started getting more
23 reports of problems involving migration of the Nellix EVAS System from doctors
24 throughout Europe. CW 1 explained that as reports of migrations began multiplying,
25 CW1, Chuck Love, the Vice President of Clinical Affairs and Avyaya Sharma, the
26 head of Global Clinical Affairs, along with many others working on the Nellix EVAS
27 System, feverishly worked to find commonalities and possible causes for the
28

1 migrations. CW1, Love and Sharma were in constant contact with European doctors
2 and partners reviewing the “stream of complaints and incident reports” coming in,
3 which were all linked to migration issues.

4 108. CW1 states that a turning point with respect to the Nellix EVAS System
5 and migrations occurred in the fall of 2015: “By I’d say October, maybe November
6 of 2015, it hit an inflection point and everything changed. We had a serious problem
7 and everyone was on it. That’s when John [McDermott] and Vaseem [Mahboob] got
8 very involved.

9 109. CW1 reports that in December 2015 McDermott convened a series of
10 meetings with senior staff to discuss the problem of migration with the Nellix EVAS
11 System. These meetings were attended by McDermott, CW1, Avyaya Sharma (head
12 of Global clinical affairs), Chuck Love (Vice President of Clinical Affairs), Jose
13 Lima (Vice President of Quality) and Afir Iftexhar (Thoracic Therapies Business
14 Leader). CW1 stated that “John McDermott knew just how serious this was, and Jose
15 [Lima] is a very smart man, so John had him running our research.”

16 110. CW 1 reports that Lima and Iftexhar both stayed directly involved in
17 trying to solve the Nellix EVAS migration problem for several months and CW1
18 communicated constantly with European doctors who were using the Nellix EVAS
19 System. CW1 states that not only could the Company not find a solution to the
20 migration problem, but they could not even figure out what was causing the devices
21 to migrate in the first place: “We had endless meetings analyzing every data point
22 from every patient to see if we could predict when these things were going to migrate.
23 The whole year and a half we were investigating, I don’t think there was any
24 progress. This consumed all of [us] every day. We literally spent thousands of hours
25 on this, and generated thousands of pages of paper with studies and reports. ***And***
26 ***John [McDermott] and Vaseem [Mahboob] were given everything. They had to be***
27
28

1 *because this was the biggest thing we had going at the company.*” (emphasis
2 added).

3 111. As referenced above, in November 2016 the Company, for the first time,
4 revised the Indications for Use (“IFU”)¹¹ for the Nellix EVAS System and made
5 doctors and the public aware of the migration issue through issuance of field safety
6 notices. CW1 reports that this could and should have been done far earlier, in 2015,
7 when Defendants became aware of the migration problems. The revised IFU
8 narrowed the patient population to exclude patients with thrombosis from using the
9 Nellix device. The revised IFU also significantly diminished the patient population
10 that could use Nellix, undermining Nellix’s selling point as a one-size fits all device
11 that could be used to treat patients with complex anatomies.

12 112. CW1 reports that he, along with Chuck Love and Avyaya Sharma
13 personally pushed McDermott to modify the IFU in November 2015 but that
14 McDermott refused: “One problem I had, and so did Chuck Love and Avy [Sharma]
15 was that we didn’t issue any FSN (Field Safety Notices) or IFUs, to make doctors
16 aware of the problem. I read the FSN they [Endologix] sent out in November [2016].
17 *That FSN should have been issued at least a year earlier. We pushed John to do*
18 *that and he wouldn’t.*” (emphasis added).

19 113. Revising the IFU would reduce the patient population that could use the
20 device by a significant percentage. Approximately 37% of the patients enrolled in the
21 clinical trials would have to be eliminated because they did not fit the narrowed
22 IFU.¹² Narrowing the IFU would have required Endologix to enroll more patients in
23

24 ¹¹ An IFU describes the disease or condition the device will diagnose, treat, prevent,
25 cure, or mitigate, including a description of the target patient population.

26 ¹² According to a January 1, 2017 presentation by Matt Thompson 37% of all patients
27 treated in the Global Registry had complex anatomies outside of the IFU.
28 https://linc2017.cncptdlx.com/media/0944_Matt_Thompson_25_01_2017_Room_2_-_Main_Arena_2.pdf

1 the clinical studies being submitted to the FDA, to make up for patients who were
2 eliminated from the studies because they did not fit the revised criteria. Accordingly,
3 revising the IFU would significantly delay PMA approval given that data on newly
4 enrolled patients would not be available until two years after the date on which they
5 were enrolled.

6 114. CW1 confirmed that as the investigation into migration of the Nellix
7 EVAS System continued at the Company, Endologix's scientists found that the Nellix
8 EVAS System was particularly dangerous in certain indications, specifically patients
9 with thrombosis, and that upon discovery of this the Company should have, but did
10 not, issue immediate field safety notices.

11 115. Thrombosis is the formation or presence of a blood clot in a blood
12 vessel. The vessel may be any vein or artery. The clot itself is termed a "thrombus."

13 116. CW1 reports that in the early months of 2016 CW1, Sharma, Love and
14 others began compiling multiple reports and presentations *per week* for McDermott
15 and Mahboob concerning migration of the Nellix EVAS System in anticipation of the
16 Company's annual Symposium on Sealing Aneurysms ("SAS"), held on March 10-
17 11, 2016 in London.

18 117. While the SAS was attended by experts in the field of endovascular
19 aneurysm sealing it was not a public event. No articles or meeting minutes from SAS
20 were publicly released to investors or the public, and Defendants never publicly
21 discussed the SAS.

22 118. CW1 states that he spent a lot of time in Europe leading up the SAS
23 conference and that at this time the reports of migrations with the Nellix EVAS
24 System from doctors increased even more.

25 119. CW1 explained that at the SAS Endologix's scientists, directors, and
26 Lima and Iftexhar provided full and honest discussion and responses to questions
27 concerning migration. CW1, along with Sharma and others provided input into the
28

1 presentation which Iftekhar was put in charge of creating which documented the
2 clinical data and the scope of the migration problem. Defendant McDermott signed
3 off on the presentation along with all of the statements by Endologix directors and
4 scientists set to speak.

5 120. CW1 attended all of the discussions and presentations at the SAS in
6 March 2016. He stated that Matt Thompson, who was then a Company consultant
7 and is now the Company's Chief Medical Officer was very upfront and stated: "We
8 are having some unexplained migrations, a lot of them. It looks like we've done
9 everything perfect, there aren't any defects or things we can point to. They are still
10 slipping down."

11 121. The Company's official presentation at SAS was given by Iftekhar, CW1
12 stated. His presentation was titled "Migration after EVAS" and CW1 recounted that
13 Iftekhar once bluntly stated that the Company had no solutions to the problem of
14 Nellix EVAS migration. The Company's official presentation at SAS was not
15 disclosed to the public.

16 122. CW1 further stated that the most important and detailed presentation at
17 SAS was given by Latvian vascular surgeon, Dainis Kreivens, one of the earliest
18 users of the Nellix EVAS System. CW1 described Krievens as "the smartest man in
19 the world" to whom "people paid a lot of attention." CW1 stated that Krievens "has
20 data from the very early days, very distinct information on different types of cases",
21 and that Kreivens said, "look, these things are slipping, they are moving, and it is
22 happening in a lot of cases."

23 123. CW1 added that after Dr. Kreivins' presentation at the SAS, Krievens
24 met with him (CW1) and other top people at Endologix such as Matt Thompson and
25 Afir Iftekhar and said, referring to Nellix EVAS System migration, "look, I'm telling
26 you now, this is not good." CW1 reports that Krievens characterized the situation as
27 "urgent".

28

1 124. CW1 states that after the SAS in March 2016 he returned to Endologix's
2 headquarters in Irvine, CA where he, along with Sharma and Love met with
3 Defendant McDermott and relayed Dr. Krievens' very pointed warning. CW1 reports
4 that at that meeting, CW1 and McDermott discussed issuing field safety notices
5 concerning migration and new use instructions to doctors and researchers. CW1
6 states that he was encouraged by the honesty at SAS: "It seemed to be the turning
7 point where we were going back to being the company we were. It was late but we
8 were relieved."

9 125. However, the field safety notices and revised IFU for Nellix EVAS that
10 CW1, Defendant McDermott, Thompson and Iftexhar discussed were not then issued
11 and the Company was silent on the massive problem of migration.

12 126. CW1 describes his and his colleagues' disgust when they listened to
13 McDermott tell investors, on the Company's First Quarter 2016 earnings call on May
14 9, 2016, (nearly two months after the SAS) that "Nellix is doing as expected. No
15 surprises."

16 127. CW1 describes listening to the Company's May 9, 2016 earnings call,
17 during which the word "migration" was never mentioned: "We were disgusted. All
18 of us were sitting around listening to the call, and we were shocked. People were
19 already leaving the company because of the awful transition with the acquisition of
20 TriVascular, but that earnings call led a race to the door. We all wanted out."

21 128. CW1 stated that Defendants continued to mislead investors. For
22 example, during the Company's August 2, 2016 Second Quarter 2016 investor
23 conference call, McDermott stated that no issues existed with the data from the IDE
24 Study. Reacting to this, CW1 stated that this "could not have been further from the
25 truth. By the time of the call we had been working for seven or eight months
26 extensively on the migration issue, and John [McDermott] was involved with, or
27 given very detailed reports, about every aspect. *He knew that we had serious issues*
28

1 *that we just weren't able to overcome...[h]e lied about pretty much everything."*
2 (emphasis added).

3 129. Elaborating on the abundance of information in Defendants' possession
4 concerning the undisclosed severity and extent of the migration issue, CW1 went on
5 to state: "We literally have years of complaints, questions from doctors, clinical
6 studies. We've known since 2015, maybe even a bit in 2014, about the migration
7 issue. We didn't know how bad things were at first, and then we spent everything
8 trying to figure out the cause. All of that is documented. Every single thing...There
9 is a thorough database. Every time a doctor made a complaint, or reported patient
10 follow up, it was measured and recorded. Then, you have to get the clinical trial
11 database. All of these records are very detailed, and they will show that John
12 [McDermott] and Vaseem [Mahboob] knew about all of the problems and they kept
13 lying to shareholders."

14 15 **The Truth Comes to Light**

16 130. On November 16, 2016, before market hours, Endologix issued a press
17 release entitled "Endologix Provides Update on Nellix PMA Process," revealing that
18 Nellix EVAS would not receive FDA approval consistent with the "timeline" that the
19 Company had promised investors. Instead, the FDA had requested that the Company
20 provide 2-year patient follow-up data from the Nellix EVAS Forward IDE Study.
21 According to the Company this would mean that potential FDA PMA approval of
22 Nellix could not occur until the second quarter of 2018, delaying approval at least an
23 additional 18 months based upon the planned 4th quarter 2016 approval the Company
24 had previously announced.¹³ McDermott stated: "we're disappointed by these

25 _____
26 ¹³ According to an August 3, 2016 JP Morgan analyst report, each quarter that
27 approval is delayed represents roughly \$7 million in revenues lost. Endologix's total
28 revenue for the second quarter of 2016 was \$51 million. This meant a 14% decline in
expected revenue each quarter for at least another two years.

1 requirements and the resulting delay, but encouraged by the 2-year clinical outcomes
2 we have seen so far with Nellix under the newly revised instructions for use. We
3 remain committed to EVAS and Nellix and have demonstrated outstanding clinical
4 results in selected patients with both traditional and complex AAA anatomies.”

5 131. In reality, this was no surprise to Defendants. CE Mark approval
6 obtained in Europe February 2013. CW 1 said reports of migration problems were
7 “multiplying” by early 2015. Early 2015 is the end of the 2 year mark, meaning
8 Defendants knew by no later than early 2015 that migration was a severe threat to
9 PMA approval in the U.S, and would also affect sales of Nellix in Europe.

10 132. By November of 2016 the IDE Study and Global Registry had been
11 going on for two years. Defendants knew from their experience in Europe that it was
12 between years 1 and 2 of implantation with Nellix that device migrations began to
13 occur, spiking dramatically towards the end of the second year of implantation.

14 133. Despite the Company’s attempt to whitewash the situation, on this news,
15 shares of Endologix fell \$2.02 per share, or over 20.5%, from its previous closing
16 price to close at \$7.82 per share on November 16, 2016, trading at *over twelve times*
17 *the volume from the day prior.*

18 134. The next day Endologix held its 2016 Investor Meeting. McDermott
19 presented as new information what Defendants had known and hid from investors for
20 over a year: that there was a problem with Nellix EVAS System and migration and
21 that as a result the FDA required additional data to determine the real patient risk
22 from migration before it could consider approving the device:

23 Analyst:

24
25 ...were there migration issues in that subset of patients that the FDA
26 already saw and is that why they're saying give me the two years for
27 everybody?
28

1 John McDermott:

2 Yes. So everybody saw the one-year data which was 2.3% of patients
3 had a 10 millimeter migration or more at one year. What we saw was
4 when we did an updated data cut for our response, some of those patients
5 went on to migrate more and there were some patients *that hadn't*
6 *displayed any migration at one year that showed signed of migration in*
7 *year two.*

8 And although most of those findings were still hadn't triggered
9 interventions, there were some and I'm not going to tell you there were
10 zero intervention. I honestly, right now, don't know the exact number off
11 the top of my head, but it was really the change in the rate. It was the
12 increase in the rate from year one to year two and that's what drove the
13 discussion.

14 (emphasis added)

15 135. Defendant McDermott explained the FDA's reason for why the FDA
16 demanded an additional two years of clinical data before it would consider approving
17 Nellix. In doing so, McDermott presented as new information to investors what
18 Defendants had known and hid all along: the evidence of migration from the IDE
19 Trial, Global Registry and direct channel experience in Europe meant that the FDA
20 would need more clinical data to determine the real patient risk from migration. As
21 Defendant McDermott stated "it was the increase in the rate from year one to year
22 two." *Id.* As in Europe, where Nellix had good results early on and migration did not
23 occur until Nellix had been implanted for over a year, migration complications in the
24 U.S. clinical data did not arise until later on, specifically after at least a year
25 following implantation.

26 136. Analysts took note of Defendants' about-face concerning the issue of
27 migration and its impact on the Nellix EVAS System and its timeline for FDA
28 approval. On November 18, 2016, a JP Morgan analyst stated:

1 At the forefront of investor's minds into the meeting was Wednesday's
2 announcement that the FDA is raising the bar on Nellix's filing, asking
3 for 2-year follow-up data from the company's EVAS FORWARD trial
4 and effectively pushing out a US approval to at least 2Q18. ***In the***
5 ***course of three weeks, the Nellix Dear Doctor letter and IFU change***
6 ***has gone from 'it's not a big deal' to 'it may end up impacting the***
7 ***business.'*** Management lowered the top-end of its 2016 revenues
8 guidance by \$1M to 198-200M and reset expectation for 2017 to the
9 lower-end of its 5-10% commentary following the 2Q call, all of which
10 points to incremental concerns about Nellix post- the Dear Doctor letter
11 and IFU change in Europe. ***How all this plays out is to be determined,***
but it's clearly going to take some time for clinicians to rethink the role
of Nellix, for the FDA to get comfortable with Nellix data, and for
investors to reclaim confidence in management and the Endologix
story.'

12 "As a starting point, here is what we know about the Nellix late
13 migration signal thus far: there were a handful of patients in the IDE trial
14 that showed >10, of device migration at 1-year and increasing level of
15 migration at 2-years....On the back of the IFU change and the disclosure
16 of increasing evidence of migration between years 1 and 2, the FDA told
17 Endologix it wants to see the 2 year data. ***Until we see that data, we***
really don't know how many of these migrations are clinically
significant, which is now the #1 question.

18 [Emphasis added].

19
20 137. A JP Morgan analyst subsequently noted the doubts raised surrounding
21 the problem of Nellix EVAS migration:

22
23 We also don't know at what point the migration stops, if ever, and therefore is
24 2-year follow-up, the new ask for Nellix, sufficient? If we see evidence of
25 migration out 2-years, even if there's limited evidence of real patient risk from
26 migration, how do we know the FDA will be comfortable approving the
27
28

1 product, unless it can conclude that the current on-market devices face similar
2 issues? This is the uncertainty today that's facing Nellix.

3 ...While the company looked to be on the cusp of another significant growth
4 phase as it pushed for a 4Q16 approval of its next-gen Nellix device, the
5 announced delays to US launch of Nellix and a label change narrowing its
6 applicability has significantly delayed one of the company's most significant
7 growth drivers. *While Nellix had the potential to be a disruptive new*
8 *technology with uptake in Europe presenting a strong case for device*
9 *adoption, the one-year delay in approval (for an older generation device, no*
10 *less) was a severe setback for Endologix.* [Emphasis added].

11 138. Then, on May 17, 2017 Endologix revealed to investors that after
12 meeting with the FDA it would *not* be seeking approval of the first generation Nellix
13 EVAS System device after all. Instead, it would seek approval of a new second
14 generation or "Gen2" Nellix EVAS device. This would require a completely separate
15 clinical trial, and would push the timeline for approval of Nellix EVAS all the way
16 out to 2020. In a press release entitled "Endologix Provides an Update on the Nellix
17 Endovascular Aneurysm Sealing System U.S. Regulatory Status" Endologix
18 informed investors that it had met with the FDA and that "based upon that meeting
19 and further internal analysis, the company has determined that it will seek U.S.
20 approval of the Nellix EVAS System by conducting a confirmatory clinical study
21 with the previously updated Instructions for Use (IFU) and the Gen2 device
22 design...The Company will collaborate with the FDA over the coming months on the
23 confirmatory clinical study protocol and anticipated beginning patient enrollment in
24 the fourth quarter of this year *with PMA approval estimated to occur in 2020.*
25 (emphasis added).

26 139. On this news, Endologix's share price fell over 36% or \$2.47 per share
27 from their closing price of \$6.73 on May 17, 2017 to close at \$4.26 on May 18, 2017.

28

1 The stock price decline following this news drove Endologix's share price to fall to
2 its lowest level in six and half years, with analysts downgrading the stock in droves.

3 140. Analysts reacted stridently to this news. In a May 23, 2016 report a JP
4 Morgan analyst stated: "At Endologix, the final shoe seemed to drop last
5 week...Recent datasets on the base of adverse event signals never work in the
6 pharmaceutical industry and rarely in devices...[]*the reason why Nellix won't get*
7 *approved with the existing data: the FDA doesn't need to approve a device that*
8 *presents increased risk to patients... At this point investors should take a US*
9 *approval for Nellix out of their models...The question is now what is Endologix*
10 *worth without Nellix...* [Emphasis added].

11 12 Materially False and Misleading Statements

13
14 141. The Class Period begins on May 5, 2016. By that date, Nellix had been
15 on the market in Europe for approximately three years and three months. The extreme
16 spike in migration, which became readily apparent by the second year of the device
17 being implanted, was well known to Defendants.

18 142. Additionally, Defendants were required to disclose to the FDA the data,
19 complaints and reports from Europe evidencing migration consistent with the PMA
20 application requirements of 21 C.F.R. 814.20(b)(8)(ii).

21 143. Presumably, Defendants followed FDA regulations and disclosed the
22 adverse events in Europe to the FDA. If the FDA was not aware of the adverse event
23 reports in Europe that only meant that Defendants intentionally withheld that
24 damning information from the FDA, thereby submitting a materially false PMA, and
25 therefore unapprovable application.

26 144. While there were less than 500 Nellix devices at issue in the IDE and
27 the Global Registry, by August of 2016 Defendants' *worldwide* experience with
28

1 Nellix included over 6,000¹⁴ patients, or 5,500 patients in Europe who had been using
2 Nellix as early as 2013. Accordingly, Defendants' real-world commercial experience
3 with Nellix in Europe overwhelmed the limited data from the IDE Study and Global
4 Registry.

5 On May 5, 2016 Endologix, represented by Defendant Mahboob, submitted a
6 presentation at the Deutsche Bank Health Care Conference. During the Management
7 Discussion Section Defendant Mahboob discussed FDA approval of the Nellix EVAS
8 System in the U.S.:

9 A lot of discussion about FDA approval in the U.S. We published a press
10 release in April that we have submitted all of the four modules at the earnings
11 call in February. We talked about submitting them within 60 days to 90 days
12 after the earnings call. We're happy to report that we've submitted all the four
13 modules to the FDA, they have them. And we have to wait for a 45-day period
14 for the FDA to say that submission is complete, and then the 180-day window
15 starts. And if you take that and say that and say 180 days *gets you to the*
16 *October-November time, that's what we've been saying consistently.*

17
18 I get a lot of questions about the panel, and John and our position is that there
19 is nothing in the data that we see today that leads us to believe, but there will
20 be a panel. But at the end of the day, this is the first PMA approval for EVAS
21 versus EVAR and the agency will do what they have to. *But today, we feel*
22 *pretty good about the timeline that we've been putting out consistently for the*
23 *last six months to eight months, which is that we expect the approval to be in*
24 *the Q4 [2016] to latest Q1 [2017] timeframe.* The one big piece of data is
25 going to be presented at SVS, which is on June 11 here in Boston, is the data
26

27
28 ¹⁴ See Endologix August 2, 2016 Form 8-K.

1 for the IDE clinical data, which is going to be presented. And that's going to
2 happen in June. *So again, on track from a PMA milestone for a Q4 approval.*

3
4]Emphasis added].

5 145. The above statement by Defendant Mahboob was materially false and
6 misleading and/or omitted material information because Defendant Mahboob had
7 actual knowledge that the Nellix EVAS System was not on track for Q4 2016 FDA
8 approval due to the severe, consistent and unresolved problems with the Nellix EVAS
9 System and migration which rendered the device, in its current state, unsafe because
10 of the unacceptable safety risks device migration posed, thereby preventing FDA
11 approval according to the timeline Defendants were "putting out consistently." By
12 stating that Endologix was "on track" with its timeline for FDA approval in "Q4 2016
13 to latest Q1 2017 timeframe" Mahboob falsely conveyed to investors that there was
14 nothing standing in the way of FDA approval of Nellix. In representing that it was
15 even possible for the then-current version of Nellix to be approved, Mahboob
16 impliedly represented that it was "safe and effective" for its intended use, a
17 prerequisite for FDA PMA approval. Given the abundance of evidence concerning
18 migrations, Mahboob knew that Nellix was not safe, and would not receive FDA
19 PMA approval. At the very least, the evidence from Europe regarding migration was
20 required to be disclosed to investors in order to make Mahboob's positive statements
21 about Nellix's anticipated FDA approval not misleading.

22 146. On May 9, 2016, Endologix issued a Press Release filed with the SEC on
23 Form 8-K, preliminarily announcing its financial results for the three months ended
24 March 31, 2016 ("1Q 2016"). In the 1Q 2016 Press Release Defendant McDermott
25 stated: "For Nellix...we remain on track with our timeline for potential FDA approval
26 at the end of 2016 or early 2017."

27

28

1 147. The above statement by Defendant McDermott in the 1Q 2016 Press
2 Release was materially false and misleading and/or omitted material information
3 because McDermott had actual knowledge that the Nellix EVAS System could not
4 receive FDA approval at the end of 2016 or early 2017 due to the severe, consistent
5 and unresolved problem of migration with the Nellix EVAS System, which rendered
6 the device, in its current state, unsafe because of the unacceptable safety risks device
7 migration posed. By stating that Endologix was “on track” with its timeline for FDA
8 approval McDermott falsely conveyed to investors that there was nothing standing in
9 the way of FDA approval of Nellix. In representing that it was even possible for the
10 then-current version of Nellix to be approved, McDermott impliedly represented that
11 it was “safe and effective” for its intended use, a prerequisite for FDA PMA approval.
12 Given the abundance of evidence concerning migrations in Europe and elsewhere,
13 McDermott knew that Nellix was not safe, and the FDA would not approve it. At the
14 very least, the evidence from Europe regarding migration was required to be
15 disclosed in order to make Defendants’ positive statements about Nellix’s safety and
16 anticipated FDA approval not misleading.

17 148. Also on May 9, 2016 Endologix held its 1Q 2016 conference call with
18 investors. During the call an analyst asked Defendant Mahboob about how Nellix
19 was performing overall: “I’m hoping you can give us a feel for the underlying Nellix
20 or I guess Nellix in the direct channel...is Nellix kind of on the same trajectory that
21 we have been seeing over the last couple of quarters[?].” Defendant Mahboob
22 responded, stating, in part “Nellix continues to do a fantastic performance outside of
23 the U.S. [...] So I would say, Nellix is doing as expected. No surprises.”

24 149. The above statement by Defendant Mahboob was materially false and
25 misleading and/or omitted material information because Defendant Mahboob had
26 actual knowledge that Nellix was *not* doing a “fantastic performance outside of the
27 U.S.” or doing “as expected” because Mahboob knew that Endologix was being
28

1 deluged with complaints from European physicians about Nellix and migration, and
2 Endologix's own scientists had told management that this was a serious problem that
3 could not be resolved or explained. At the very least, the evidence from Europe
4 regarding migration causing adverse events and endangering patients was required to
5 be disclosed in order to make Defendants' positive statements about Nellix's
6 performance outside of the U.S. not misleading. Moreover, the huge number of
7 adverse events from Nellix migration in Europe was a red flag for investors
8 indicating that the FDA would not approve Nellix once it learned that it was prone to
9 migration after a year from implantation. Thus, this false statement compounded and
10 supported Defendants' false statements that Nellix was on track for FDA approval in
11 the fourth quarter of 2016.

12 150. Additionally, on the May 9, 2016 conference call Defendant McDermott
13 responded to an analyst's request to provide follow up on the FDA process, stating in
14 part: "At this point, I can tell you the process is clicking ahead on schedule and the
15 interaction with the FDA has been constructive. So right now everything continues to
16 look like a PMA approval, hopefully, by the end of this year or the first part of next
17 year."

18 151. The above statement by Defendant McDermott was materially false and
19 misleading and/or omitted material information because Defendant McDermott knew
20 that there was absolutely no hope of receiving FDA PMA approval by the end of
21 2016 or the first part of 2017 due to the severe, consistent and unresolved problem
22 with the Nellix EVAS System and migration which made the Nellix EVAS System,
23 in its current form unsafe and therefore the FDA would not approve it for use in the
24 U.S. because of the unacceptable safety risks device migration posed. In representing
25 that it was even possible for the then-current version of Nellix to be approved,
26 McDermott impliedly represented that it was "safe and effective" for its intended use,
27 a prerequisite for FDA PMA approval. Presumably, Defendants followed the

28

1 requirements of 21 C.F.R. 814.20(b)(8)(ii) and did in fact submit to the FDA the data
2 concerning the huge number of adverse events and complications with the Nellix
3 EVAS System as well as any patient or doctor complaints that occurred in Europe. In
4 the alternative, if Defendants did not do so they intentionally and illegally lied to the
5 FDA by withholding information legally required to be disclosed, thereby submitting
6 a false PMA application. At the very least, the evidence from Europe regarding
7 migration was required to be disclosed in order to make Defendants' positive
8 statements about Nellix's safety and approvability not misleading.

9 152. Then, on August 2, 2016, with anticipated FDA approval nearing closer,
10 the Company held a conference call with investors to discuss the Company's
11 financial results for the quarter ended June 30, 2016 (the "Q2 2016 Conference
12 Call"). During the Q2 2016 Conference Call, Defendant McDermott stated that "we
13 remain very positive about the likelihood of approval [for Nellix EVAS System] and
14 the significant growth we expect to drive with Nellix."

15 153. In reporting its results for Q2 2016 on August 2, Endologix
16 acknowledged the relevance and consideration by the FDA of the commercial
17 experience with patients in Europe in its quest for PMA approval stating "we are
18 working very collaboratively with the FDA to provide the required information and
19 remain confident in the PMA approval of Nellix based upon the IDE clinical results,
20 data from other international studies *and our worldwide experience which now*
21 *includes over 6,000 patients.*" (emphasis added).

22 154. During the Q2 2016 Conference call, Defendant McDermott further
23 assured investors that no issues exist with the data from the IDE Study, stating in
24 pertinent part:

25 **Matt Blackman**

26 Okay, that's very helpful. And I'm going flip in one last question back
27 on the panel. I'm sure you're eager to provide the intimate details of
28 your FDA discussions...But maybe give us a little bit more color,

1 more sense of comfort that there is not something else going on, there
2 is no sort of red flag raised in terms of data that they saw. I guess,
3 anything that you could give us that, gives us any comfort there would
be helpful? Thank you.

4 **John McDermott**

5 Sure. So, the three reasons that the agency will typically consider
6 sending a device to panel is one; if there is, any new clinical issues of
7 safety efficacy and obviously **everyone has seen the data so we**
8 **know there aren't any issues there.** The second reason is if they feel
9 - the FDA feels they don't have the clinical or technical expertise to
complete the review of a PMA, that's not the case. So and the third is
if it's novel technology.

10 [Emphasis added].

11
12 155. Additionally, during the Q2 2016 Conference call, Defendant
13 McDermott indicated that none of the questions the FDA posed to the Company
14 suggested there was any risk the FDA would not approve the device, stating in
15 pertinent part:

16 **Joanne Wuensch**

17 Hi. Can we talk a little bit about what type of additional data or
18 questions that you're receiving? I mean, is there any way to give us
19 some information regarding that?

20 **John McDermott**

21 Yes, I don't want to get too detailed with that Joanne. What I can tell
22 you, is that **none of the questions we got asked are what I would**
23 **characterize as big surprises.** There is clarification on some things,
24 some requests for additional analysis, some additional testing.
25 **Nothing that would suggest in our view any question or risk of**
approvability, just some more blocking and tackling and
clarification of the data we submitted.

26 **So, we don't see anything in there that's given us heartburn.** It
27 will just take a little time to pull it altogether. And we'd also like to
28

1 take another run at this novelty question and see if we can provide the
2 agency with enough evidence that the device isn't novel so that we
3 don't have to go to panel. So that would be the focus of the work we
do over the next few months.

4 [Emphasis added].

5
6 156. The statements in ¶¶152-155 above were materially false and misleading
7 and/or omitted material information because Defendants had actual knowledge that:
8 (1) not only was it unlikely that the Nellix EVAS System would receive FDA
9 approval in the U.S. consistent with the timeline Defendants were putting out to
10 investors, it was impossible, given the severe, consistent and unresolved problem
11 with the Nellix EVAS System and migration which made the Nellix EVAS System in
12 its current form unapprovable in the U.S. because of the unacceptable safety risks
13 device migration posed; (2) there were in fact serious "issues with the data" such that
14 Endologix had in its possession an abundance of clinical data, including in the
15 Company's complaint database and clinical trial database which Defendants were
16 well aware of, and which Defendants were required to disclose to the FDA, that
17 demonstrated the severe and intractable problem of migration that made the Nellix
18 EVAS System, in its current form, unapprovable in the U.S. because of the
19 unacceptable safety risks device migration posed; and (3) the evidence from Europe
20 concerning migration that Defendants were required to submit to the FDA did in fact
21 create "issues with the data" as it demonstrated that the Nellix device, in its current
22 form was unsafe due to migration and could not be approved.

23 157. Defendants admitted on the August 2, 2016 conference call that they
24 followed the requirements of 21 C.F.R. 814.20(b)(8)(ii) and did in fact submit to the
25 FDA the adverse events and complications with the Nellix EVAS System as well as
26 any patient or doctor complaints that occurred in Europe. In the alternative, if
27 Defendants did not do so they intentionally and illegally lied to the FDA by
28

1 withholding information legally required to be disclosed, thereby submitting a false
2 PMA application. At the very least, the evidence from Europe regarding migration
3 was required to be disclosed in order to make Defendants' positive statements about
4 Nellix's safety and approvability not misleading.

5 158. On November 1, 2016, during aftermarket hours, the Company held a
6 conference call with investors to discuss the Company's financial results for the
7 quarter ended September 30, 2016 (the "Q3 2016 Conference Call"). During the Q3
8 2016 Conference Call, Defendant McDermott touted the Company's positive
9 interaction with the FDA, stating in pertinent part:

10
11 **John McDermott**

12 In terms of the U.S. PMA, we achieved the clinical endpoints in the
13 IDE share dilated clinical data with FDA. We've also provided them
14 with our updated patient selection criteria and *have had positive*
15 *discussion so far. Nellix PMA approval time lines are unchanged*
16 *although we think a panel is more likely now given the updated*
17 *indications.*

18 [Emphasis added].

19 159. The issue of migration and Nellix EVAS System came up on the Q3
20 2016 Conference Call, with Defendants telling investors that the FDA requested that
21 Endologix submit "the most recent cut of the data for them to review," and that
22 Endologix had changed the Indication For Use ("IFU") for Nellix EVAS based upon
23 the "updated data cut" that Endologix had recently run. Defendant McDermott
24 stated:

25 Regarding Nellix, *we've recently ran an updated data cut from the IDE*
26 *clinical database and noticed an increase in migration in aneurysm*
27 *enlargement in some patients with two-year follow-up.* We've learning
28 that migration can occur in patients with small flow lumens *and a lot of*
thrombus because there isn't enough space to inject sufficient polymer

1 to support the stents. ***Our solution is a simple update to the patient’s***
2 ***selection criteria*** that measures the ratio of aneurysm diameter to the
3 flow lumen to ensure there is enough space for polymer...When we
4 examined the IDE data for patients that fit within this updated selection
5 criteria, ***we see extremely positive safety and durability results out to***
two years, which gives us confidence that Nellix can be a leading device
in the treatment of abdominal aortic aneurysms.

6 (Emphasis added)
7

8 160. On the Q3 2016 Conference Call Defendant McDermott portrayed
9 migration of the Nellix EVAS System as only recently coming to Defendants’
10 attention and went on to emphasize Endologix’s favorable interactions with the FDA,
11 reassuring investors that any concerns related to migration were minimal stating: “we
12 did have a successful clinical study and met the endpoints in the trial. So actually
13 when we interacted with the agency so far on the updated indications, they’ve
14 responded favorably. ***They had some questions about migration and a curiosity if it***
15 ***was progressive...we really can’t get into any of the data details as this point in***
16 ***time...But what I can tell you is that the re-interventions related to this issue are***
17 ***extremely low.***” (Emphasis added).

18 161. McDermott also emphasized that the issue of migration was “***a very easy***
19 ***situation*** to address just by narrowing for those particular anatomies” adding that “I
20 think people are – have given us a lot of credit for being so proactive and getting out
21 ahead of it. We’ll say there are some physicians who think we’re being a little
22 conservative, but our view is let’s be- let’s think patient safety first and then we can
23 see some ways to open up this patient criteria moving forward.” (Emphasis added).

24 162. Defendant McDermott’s above statements on the Q3 2016 Conference
25 Call were materially false and misleading and/or omitted material information
26 because: (1) the Nellix EVAS System timeline for FDA approval was not
27 “unchanged” because the severe, consistent and unresolved problem with the Nellix
28

1 EVAS System and migration causing unacceptable safety risks meant that the FDA
2 would not approve the Nellix EVAS System in accordance with the timeline
3 Defendants had been putting out to investors; (2) Defendants did not recently learn
4 about the high incidence of migration with the Nellix EVAS System when it ran an
5 “updated data cut”- in reality Defendants were well aware of the frequency of device
6 migration with Nellix, a phenomenon that continually increased since at least the
7 beginning of 2015 and that had sparked Endologix’s senior executive to pressure
8 McDermott to issue a field safety notice and narrow Nellix’s IFU in November 2015;
9 (3) Defendants were aware, at least one year prior, that they should narrow the IFU to
10 exclude patients with a lot of thrombus but refused to do so; and (4) migration of the
11 Nellix EVAS System was not “a very easy situation to address-” to the contrary, it
12 had plagued the Individual Defendants and the Company’s scientists who were not
13 only unable find a solution to the migration problem, but could not even figure out
14 what was causing the devices to migrate in the first place.

15 163. Additionally, the above November 1, 2016 statements were misleading
16 in context because McDermott omitted that Endologix had been searching for a
17 solution to the migration problem since 2015 and that McDermott even personally
18 created and oversaw an Endologix “task force” to investigate the migration issue in
19 January 2016. At the very least, the evidence from Europe regarding migration was
20 required to be disclosed in order to make Defendants’ positive statements about
21 Nellix’s safety and anticipated FDA approval not misleading.

22 164. On November 16, 2016, before market open, Endologix issued a press
23 release entitled “Endologix Provides Update on Nellix PMA Process,” revealing that
24 Nellix EVAS would not receive FDA approval consistent with the “timeline” that the
25 Company had promised investors. Instead, the FDA had requested that the Company
26 provide 2-year patient follow-up data from the Nellix EVAS Forward IDE Study.
27 According to the Company this would mean that FDA PMA approval of Nellix could
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1 not occur until the second quarter of 2018, delaying approval at least an additional 18
2 months based upon the planned 4th quarter 2016 approval the Company had
3 previously announced. McDermott stated: “we’re disappointed by these requirements
4 and the resulting delay, but encouraged by the 2-year clinical outcomes we have seen
5 so far with Nellix under the newly revised instructions for use. We remain
6 committed to EVAS and Nellix and have demonstrated outstanding clinical results in
7 selected patients with both traditional and complex AAA anatomies.”

8 165. In reality, this was no surprise to Defendants. By early 2015 marketing
9 of Nellix in Europe had been going on for two full years. Defendants knew from their
10 experience in Europe that it was between years 1 and 2 of implantation with Nellix
11 that device migrations began to occur. By February 2016, the IDE Study and Global
12 Registry had been going on for two years and Defendants would have identified the
13 same problem with migration in the clinical trials that was occurring in Europe.

14 166. On November 17, 2016 Endologix held its 2016 Investor Meeting.
15 McDermott responded to an analyst’s question and presented as new information
16 what Defendants had known and hid from investors all along: that there was a
17 problem with Nellix EVAS System and migration endangering patients’ lives and
18 that as a result the FDA required additional data to determine the real patient risk
19 from migration before it could consider approving the device:

20 Analyst:

21 ...were there migration issues in that subset of patients that the FDA
22 already saw and is that why they're saying give me the two years for
23 everybody?

24 John McDermott:

25 Yes. So everybody saw the one-year data which was 2.3% of patients
26 had a 10 millimeter migration or more at one year. What we saw was
27 when we did an updated data cut for our response, some of those patients
28

1 went on to migrate more and there were some patients *that hadn't*
2 *displayed any migration at one year that showed signs of migration in*
3 *year two.*

4 And although most of those findings still hadn't triggered interventions,
5 there were some and I'm not going to tell you there were zero
6 intervention. I honestly, right now, don't know the exact number off the
7 top of my head, but it was really the change in the rate. It was the
8 increase in the rate from year one to year two and that's what drove the
9 discussion.

10 (emphasis added)

11 167. The above statement was false and misleading and/or omitted material
12 information in presenting as new information to investors what Defendants had
13 known and hid all along: that the evidence of migration from the data the FDA saw
14 resulted in the FDA requiring additional clinical data to determine the real patient risk
15 from migration. As Defendant McDermott stated "it was the increase in the rate from
16 year one to year two." *Id.* As in Europe, where Nellix had good results in the clinical
17 trials early on and migration did not occur until Nellix had been implanted for about a
18 year. But Defendants knew that in early 2015, based on their experience marketing
19 Nellix in Europe.

20 **POST CLASS PERIOD EVENTS**

21 168. In the Company's Form 10-Q for the second quarter of 2017 filed with
22 the SEC on August 4, 2017 the Company announced that it was being investigated by
23 the SEC concerning the Nellix EVAS System, stating that "In July 2017, the
24 Company learned that the United States Securities and Exchange Commission (SEC)
25 has issued a Formal Order of Investigation to investigate, among other things, events
26 surrounding the Nellix EVAS System and the prospect of its FDA pre-market
27 approval."
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1 169. A week later, on August 10, 2017, the Company’s Vice President of
 2 Regulatory Affairs notified the Company of her intention to resign effective
 3 September 8, 2017.

4 170. Presentations concerning the Nellix EVAS System after the Class Period
 5 confirm what Defendants knew since the beginning of 2015: that Nellix began to
 6 migrate between one and two years following implantation and that the IFU for
 7 Nellix needed to be narrowed thereby drastically reducing its commercial appeal. For
 8 example, in a presentation by Matt Thompson, Endologix’s Chief Medical Officer
 9 entitled “Nellix: Lessons Learned after 3 Years and Potential for Future
 10 Development” one slide is aptly titled “3 Years of EVAS- the story so far “*failure*
 11 *modes apparent at 2y. Migration.*”¹⁵ (Emphasis added).”

12 171. Another presentation by John Lane, Acting Chief of Vascular Surgery at
 13 the University of California, San Diego and a consultant for Endologix noted
 14 “reduced applicability” given the refinement of the IFU “EVAS performs best in
 15 AAA with low thrombus burden...*migration signal at 2 years in AAA with large*
 16 *thrombus burden.* (emphasis added)¹⁶”

17 **ADDITIONAL SCIENTER ALLEGATIONS**

18 172. The fraud alleged herein involved the Company’s core operations, as
 19 Defendants repeatedly emphasized the primacy of the Nellix EVAS System and its
 20

21 ¹⁵ Available at
 22 <http://webcache.googleusercontent.com/search?q=cache:dWTaOnuFY3YJ:www.cong>
 23 -
 24 [o.de/index.php?option=com_docman&task=doc_download&gid=467+](http://www.cong.com/od/index.php?option=com_docman&task=doc_download&gid=467+&cd=14&hl=en&ct=clnk&gl=us)
 25 [467+&cd=14&hl=en&ct=clnk&gl=us](http://www.cong.com/od/index.php?option=com_docman&task=doc_download&gid=467+&cd=14&hl=en&ct=clnk&gl=us)
 26

27 ¹⁶ Available at: <http://pnec-seattle.org/images/2NellixLanePNEC.pdf>
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1 role as the driver of the Company's future growth. Since Endologix's success and
2 future prospects depended on U.S. approval of the Nellix EVAS System, Defendants
3 had the motive to mislead the market about the prospects of the Nellix EVAS System
4 given that the Nellix EVAS System was "the biggest thing the Company had."

5 173. As CEO and CFO, McDermott and Mahboob were responsible for
6 preparing and delivering investor presentations to analysts and investors.

7 174. Defendants McDermott and Mahboob personally received weekly and at
8 times daily briefings about the increasing number of complaints from doctors and
9 patients in Europe about migration of the Nellix EVAS System in patients. In
10 particular, CW1, who was the Head of Aortic Procedure Development working
11 directly on Nellix stated that McDermott personally created and oversaw an
12 Endologix "task force" to investigate the migration problem in January 2016.

13 175. Defendant McDermott was personally urged by CW1 and other high-
14 level Company officials, including the Vice President of Quality (Jose Lima), the
15 Vice President of Clinical Affairs (Chuck Love), the Senior Director of Global
16 Clinical Affairs (Avyaya Sharma) and the Thoracic Therapies Business Leader (Afir
17 Iftekhar) in March of 2016 to change the indications for use and issue field safety
18 notices to doctors regarding the problems of migration and refused to do so until the
19 FDA brought up the issue of migration nearly one year later. Defendant McDermott
20 also personally approved the Company's presentation on Nellix and migration given
21 at the March 2016 Symposium on Aneurysm Sealing in London.

22 176. Defendants McDermott and Mahboob not only had access to and were
23 aware of the Company's complaint database and clinical trial database which detailed
24 the reports of migration of the Nellix EVAS System, they were also "**given**
25 **everything**" generated in "endless meetings analyzing every data point from every
26 patient," including the "thousands of pages of paper with studies and reports"

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1 concerning migration and Nellix” during the period from the beginning of 2015 to at
2 least June 2016.

3 177. Defendants’ motivation to bring the Nellix EVAS system to market
4 quickly, despite their full knowledge of associated risks to patients’ lives, also
5 supports an inference of scienter. Here, the successful development of a rival EVAS
6 system by competitors was seen as a competitive threat and a major risk to Endologix
7 by analysts and investors.

8 178. The impact of the revised IFU on Nellix’s sales prospects also supports
9 an inference of scienter. The narrowed IFU resulted in a much smaller market for
10 Nellix and in turn diminished anticipated revenues from Nellix by at least 37%
11 annually and diminished Endologix’s overall expected future revenue by at least
12 14%. This revenue decrease (once disclosed publicly) would therefore decrease the
13 expected future value of cash flows, and hence decrease the current market price of
14 Endologix stock.

15 179. For example, 37% of all patients treated in the Global Registry had
16 complex anatomies outside of the IFU¹⁷ meaning that of the 300 patients in the
17 Global Registry, 111 of them would not be able to use Nellix.

18 180. One presentation at a conference in the Netherlands from December 7-9
19 2017 stated that ““Mid-term results of 300+ patients treated by endovascular aortic
20 sealing (EVAS) dated Dec 7-9th noted that in a study of 355 patients 64% of them
21 were within the old IFU whereas only 18% of those 355 patients were within the
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23
24

25 ¹⁷ See “Practicing Outside of the IFU- Also an Issue With New Sac Filling
26 Technologies,” Matt Thompson, available at
27 [https://linc2017.cncptdlx.com/media/0944_Matt_Thompson_25_01_2017_Room_2_-](https://linc2017.cncptdlx.com/media/0944_Matt_Thompson_25_01_2017_Room_2_-_Main_Arena_2.pdf)
28 [_Main_Arena_2.pdf](https://linc2017.cncptdlx.com/media/0944_Matt_Thompson_25_01_2017_Room_2_-_Main_Arena_2.pdf)

1 refined IFU.” Importantly, the presentation noted that “***the refined IFU significantly***
2 ***reduced the applicability of the technique***”.¹⁸

3 181. The appeal of Nellix to the market and investors was not only that it was
4 the first device of its kind it was also the broad applicability for use in all AAA
5 patients that Defendants touted. Revising the IFU significantly undermined that.

6 182. Revising the IFU also contributed to an overall reduction of the
7 Company’s revenues. For example, in the Company’s 10-Q for the quarterly period
8 ended September 30, 2017 the Company noted the decline in overall European sales
9 driven by the reduction in revenue from Nellix because of the refined IFU: “Net
10 sales of products in our international regions totaled \$15.1 million in the three months
11 ended September 30, 2017, a 4.5% decrease from \$15.8 million in net sales of
12 products in our international regions in the three months ended September 30, 2016.
13 Both AFX and Ovation product lines posted strong growth ***which was offset by a***
14 ***decline in Nellix sales reflecting the narrowed IFU.***” (Emphasis added).

15 183. In addition, revising the IFU would result in a major delay in FDA
16 approval. Because revising the IFU would eliminate patients already in the IDE
17 Study and Global Registry the FDA would require additional patient enrollment to
18 make up for the reduction in patients excluded because of the narrowed IFU. For
19 example, because the refined IFU resulted in the exclusion of 111 patients from the
20 Global Registry Endologix would have to enroll an additional 111 patients in the
21 Global Registry and study them for two years. If Defendants refined the IFU in
22 November 2015 and enrolled new patients by January 2016 study results would not

23
24 ¹⁸ See Mid-term results of 300+ patients treated by endovascular aortic sealing
25 (EVAS), Jean-Paul P.M. de Vries, 7th MAC Conference Munchen, Dec 7-9th 2017.
26 Available at [http://mac-conference.com/wp-](http://mac-conference.com/wp-content/uploads/2017/12/02_DEVASS.pdf)
27 [content/uploads/2017/12/02_DEVASS.pdf](http://mac-conference.com/wp-content/uploads/2017/12/02_DEVASS.pdf)

1 be complete until January 2018, and PMA approval could not occur until the first or
2 second quarter of 2018- at least 15 months later than the fourth quarter 2016 estimate
3 of PMA approval Defendants held out to investors during the Class Period.

4 184. Accordingly, despite knowing for at least one full year that a revised IFU
5 was necessary to prevent serious adverse events that could result in death, Defendants
6 held off in revising the IFU for as long as possible putting patients' lives at risk.

7 185. Additionally, the SEC's investigation of Endologix concerning the
8 events surrounding the Nellix EVAS System and the prospect of its FDA pre-market
9 approval which was announced after the close of the Class Period supports an
10 inference of scienter.

11
12 **LOSS CAUSATION**

13 186. During the Class Period, as detailed herein, Defendants made false and
14 misleading statements and omitted material information concerning the prospects for
15 FDA approval of the Nellix EVAS System's prospects for FDA approval, and
16 engaged in a scheme to deceive the market. Defendants knowingly misstated and
17 omitted material information concerning the approvability of the Nellix EVAS
18 System by the FDA in order to improve the market's perception of Endologix's
19 worth, causing Endologix to trade at artificially inflated prices.

20 187. By artificially inflating Endologix's stock price, Defendants deceived
21 Plaintiff and the Class and caused them losses when the truth was revealed. When
22 Defendants' prior misrepresentations and fraudulent conduct became apparent to the
23 market, Endologix's share prices fell precipitously as the prior artificial inflation
24 came out of the price. Endologix's share price fell \$2.02 per share on November 16,
25 2016, or over 20.5% when the Company announced the FDA would require another
26 two years of safety data due to the safety threat posed by migration of Nellix. Then
27 on May 17, 2017 Endologix's share price dropped \$2.47 per share of 36% when the
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1 Company announced that it would *not* seek approval of the first generation Nellix
2 EVAS System device after all because of the intractable problems with migration.
3 Instead, Endologix would seek approval of a second generation or “Gen2” Nellix
4 EVAS device.

5 188. As a result of their purchases of Endologix securities during the Class
6 Period, Plaintiff and other members of the Class suffered economic loss, *i.e.*,
7 damages, under the federal securities laws.

8 **PLAINTIFF’S CLASS ACTION ALLEGATIONS**

9 189. Plaintiff brings this action as a class action pursuant to Federal Rule of
10 Civil Procedure 23(a) and (b)(3) on behalf of a Class, consisting of all those who
11 purchased or otherwise acquired Endologix securities publicly traded on the
12 NASDAQ during the Class Period (the “Class”); and were damaged upon the
13 revelation of the alleged corrective disclosures. Excluded from the Class are
14 Defendants herein, the officers and directors of the Company, at all relevant times,
15 members of their immediate families and their legal representatives, heirs, successors
16 or assigns and any entity in which Defendants have or had a controlling interest.

17 190. The members of the Class are so numerous that joinder of all members is
18 impracticable. Throughout the Class Period, Endologix securities were actively
19 traded on the NASDAQ. While the exact number of Class members is unknown to
20 Plaintiff at this time and can be ascertained only through appropriate discovery,
21 Plaintiff believes that there are hundreds or thousands of members in the proposed
22 Class. Record owners and other members of the Class may be identified from records
23 maintained by the Company or its transfer agent and may be notified of the pendency
24 of this action by mail, using the form of notice similar to that customarily used in
25 securities class actions.

1 191. Plaintiff's claims are typical of the claims of the members of the Class as
2 all members of the Class are similarly affected by Defendants' wrongful conduct in
3 violation of federal law that is complained of herein.

4 192. Plaintiff will fairly and adequately protect the interests of the members
5 of the Class and has retained counsel competent and experienced in class and
6 securities litigation. Plaintiff has no interests antagonistic to or in conflict with those
7 of the Class.

8 193. Common questions of law and fact exist as to all members of the Class
9 and predominate over any questions solely affecting individual members of the Class.
10 Among the questions of law and fact common to the Class are:

- 11 • whether the federal securities laws were violated by Defendants' acts as
12 alleged herein;
- 13 • whether statements made by Defendants to the investing public during
14 the Class Period misrepresented material facts about the financial
15 condition, business, operations, and management of the Company;
- 16 • whether Defendants' public statements to the investing public during the
17 Class Period omitted material facts necessary to make the statements
18 made, in light of the circumstances under which they were made, not
19 misleading;
- 20 • whether the Individual Defendants caused the Company to issue false
21 and misleading SEC filings and public statements during the Class
22 Period;
- 23 • whether Defendants acted knowingly or recklessly in issuing false and
24 misleading SEC filings and public statements during the Class Period;
- 25 • whether the prices of Endologix securities during the Class Period were
26 artificially inflated because of the Defendants' conduct complained of
27 herein; and

- 1 • whether the members of the Class have sustained damages and, if so,
2 what is the proper measure of damages.

3 194. A class action is superior to all other available methods for the fair and
4 efficient adjudication of this controversy since joinder of all members is
5 impracticable. Furthermore, as the damages suffered by individual Class members
6 may be relatively small, the expense and burden of individual litigation make it
7 impossible for members of the Class to individually redress the wrongs done to them.
8 There will be no difficulty in the management of this action as a class action.

9 APPLICABILITY OF PRESUMPTION OF RELIANCE: AFFILIATED UTE

10 195. Neither Plaintiff nor the Class need prove reliance – either individually
11 or as a class – because under the circumstances of this case, which involve omissions
12 of material fact as described above, positive proof of reliance is not a prerequisite to
13 recovery, pursuant to the ruling of the United States Supreme Court in *Affiliated Ute*
14 *Citizens of Utah v. United States*, 406 U.S. 128, 92 S. Ct. 1456, 31 L. Ed. 2d 741
15 (1972). All that is necessary is that the facts withheld be material in the sense that a
16 reasonable investor might have considered the omitted information important in
17 deciding whether to buy or sell the subject security.

18 FRAUD-ON-THE-MARKET DOCTRINE

19 196. Plaintiff will rely upon the presumption of reliance established by the
20 fraud on the market doctrine in that, among other things:

21 197. Defendants made public misrepresentations or failed to disclose material
22 facts during the Class Period;

23 198. The omissions and misrepresentations were material;

24 199. The Company's stock traded in an efficient market;

25 200. The misrepresentations alleged would tend to induce a reasonable
26 investor to misjudge the value of the Company's stock; and

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1 201. Plaintiff and other members of the Class purchased Endologix common
2 stock between the time defendants misrepresented or failed to disclose material facts
3 and the time the true facts were disclosed, without knowledge of the misrepresented
4 or omitted facts.

5 202. At all relevant times, the market for Endologix common stock was
6 efficient for the following reasons, among others:

7 203. As a regulated issuer, Endologix filed periodic public reports with the
8 SEC. Endologix met the requirements for listing, and was actively traded on the
9 NASDAQ, under ticker ELGX;

10 204. On May 5, 2016, there were 81.819 million Endologix shares
11 outstanding;

12 205. During the Class Period, an average of 7,849,385 Endologix shares were
13 traded weekly, or about 9.6% of Endologix's total shares outstanding;

14 206. Endologix regularly communicated with public investors via established
15 market communication mechanisms, including through regular disseminations of
16 press releases on the major news wire services and through other wide-ranging public
17 disclosures, such as communications with the financial press, securities analysts, and
18 other similar reporting services.

19 207. Endologix was eligible to file short-form registration statements with the
20 SEC on Form S-3;

21 208. Endologix was followed by numerous analysts that issued reports about
22 it.

23 209. New company specific information was rapidly reflected in the
24 Company's stock price.

25 NO SAFE HARBOR

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1 misleading in that they contained misrepresentations and failed to disclose material
2 facts necessary in order to make the statements made, in light of the circumstances
3 under which they were made, not misleading.

4 215. The Company and the Individual Defendants violated §10(b) of the 1934
5 Act and Rule 10b-5 in that they:

- 6 • employed devices, schemes and artifices to defraud;
- 7 • made untrue statements of material facts or omitted to state material
8 facts necessary in order to make the statements made, in light of the
9 circumstances under which they were made, not misleading; or
- 10 • engaged in acts, practices and a course of business that operated as a
11 fraud or deceit upon plaintiff and others similarly situated in connection
12 with their purchases of Endologix securities during the Class Period.

13 216. The Company and the Individual Defendants acted with scienter in that
14 they knew that the public documents and statements issued or disseminated in the
15 name of the Company were materially false and misleading; knew that such
16 statements or documents would be issued or disseminated to the investing public; and
17 knowingly and substantially participated, or acquiesced in the issuance or
18 dissemination of such statements or documents as primary violations of the securities
19 laws. These defendants by virtue of their receipt of information reflecting the true
20 facts of the Company, their control over, and/or receipt and/or modification of the
21 Company's allegedly materially misleading statements, and/or their associations with
22 the Company which made them privy to confidential proprietary information
23 concerning the Company, participated in the fraudulent scheme alleged herein.

24 217. Individual Defendants, who are the senior officers and/or directors of
25 the Company, had actual knowledge of the material omissions and/or the falsity of
26 the material statements set forth above, and intended to deceive Plaintiff and the other
27 members of the Class, or, in the alternative, acted with reckless disregard for the truth
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1 when they failed to ascertain and disclose the true facts in the statements made by
2 them or other personnel of the Company to members of the investing public,
3 including Plaintiff and the Class.

4 218. As a result of the foregoing, the market price of Endologix securities was
5 artificially inflated during the Class Period. In ignorance of the falsity of the
6 Company's and the Individual Defendants' statements, Plaintiff and the other
7 members of the Class relied on the statements described above and/or the integrity of
8 the market price of Endologix securities during the Class Period in purchasing
9 Endologix securities at prices that were artificially inflated as a result of the
10 Company's and the Individual Defendants' false and misleading statements.

11 219. Had Plaintiff and the other members of the Class been aware that the
12 market price of Endologix securities had been artificially and falsely inflated by the
13 Company's and the Individual Defendants' misleading statements and by the material
14 adverse information which the Company's and the Individual Defendants did not
15 disclose, they would not have purchased Endologix securities at the artificially
16 inflated prices that they did, or at all.

17 220. As a result of the wrongful conduct alleged herein, Plaintiff and other
18 members of the Class have suffered damages in an amount to be established at trial.

19 221. By reason of the foregoing, the Company and the Individual Defendants
20 have violated Section 10(b) of the 1934 Act and Rule 10b-5 promulgated thereunder
21 and are liable to the Plaintiff and the other members of the Class for substantial
22 damages which they suffered in connection with their purchases of Endologix
23 securities during the Class Period.

24 **COUNT II**

25 **Violation of Section 20(a) of The Exchange Act**
26 **Against The Individual Defendants**

1 222. Plaintiff repeats and realleges each and every allegation contained in the
2 foregoing paragraphs as if fully set forth herein.

3 223. During the Class Period, the Individual Defendants participated in the
4 operation and management of the Company, and conducted and participated, directly
5 and indirectly, in the conduct of the Company’s business affairs. Because of their
6 senior positions, they knew the adverse non-public information regarding the
7 Company’s business practices.

8 224. As officers and/or directors of a publicly owned company, the Individual
9 Defendants had a duty to disseminate accurate and truthful information with respect
10 to the Company’s financial condition and results of operations, and to correct
11 promptly any public statements issued by the Company which had become materially
12 false or misleading.

13 225. Because of their positions of control and authority as senior officers, the
14 Individual Defendants were able to, and did, control the contents of the various
15 reports, press releases and public filings which the Company disseminated in the
16 marketplace during the Class Period. Throughout the Class Period, the Individual
17 Defendants exercised their power and authority to cause the Company to engage in
18 the wrongful acts complained of herein. The Individual Defendants therefore, were
19 “controlling persons” of the Company within the meaning of Section 20(a) of the
20 Exchange Act. In this capacity, they participated in the unlawful conduct alleged
21 which artificially inflated the market price of Endologix securities.

22 226. Each of the Individual Defendants, therefore, acted as a controlling
23 person of the Company. By reason of their senior management positions and/or being
24 directors of the Company, each of the Individual Defendants had the power to direct
25 the actions of, and exercised the same to cause, the Company to engage in the
26 unlawful acts and conduct complained of herein. Each of the Individual Defendants
27 exercised control over the general operations of the Company and possessed the
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1 power to control the specific activities which comprise the primary violations about
2 which Plaintiff and the other members of the Class complain.

3 227. By reason of the above conduct, the Individual Defendants are liable
4 pursuant to Section 20(a) of the Exchange Act for the violations committed by the
5 Company.

6 **PRAYER FOR RELIEF**

7 WHEREFORE, Plaintiff demands judgment against Defendants as follows:

8 A. Determining that the instant action may be maintained as a class action
9 under Rule 23 of the Federal Rules of Civil Procedure, and certifying Plaintiff as the
10 Class representative;

11 B. Requiring Defendants to pay damages sustained by Plaintiff and the
12 Class by reason of the acts and transactions alleged herein;

13 C. Awarding Plaintiff and the other members of the Class prejudgment and
14 post-judgment interest, as well as their reasonable attorneys' fees, expert fees and
15 other costs; and

16 D. Awarding such other and further relief as this Court may deem just and
17 proper.

18 **DEMAND FOR TRIAL BY JURY**

19 Plaintiff hereby demands a trial by jury.

20
21 Dated: January 9, 2018

Respectfully submitted,

22 **THE ROSEN LAW FIRM, P.A.**

23 By: Laurence M. Rosen, Esq.
24 Laurence M. Rosen, Esq. (SBN 219683)
25 355 S. Grand Avenue, Suite 2450
26 Los Angeles, CA 90071
27 Telephone: (213) 785-2610
28 Facsimile: (213) 226-4684
Email: lrosen@rosenlegal.com

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Sara Fuks, Esq. (admitted *pro hac vice*)
275 Madison Avenue, 34th Floor
New York, NY 10016
Telephone: (212) 686-1060
Email: sfuks@rosenlegal.com

Lead Counsel for Lead Plaintiff